; Entered [jdelaval 11-Feb-04 6:27] SEQ1 acywkvct1

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                             Database :
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Maximum DB seq length: 200000000
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Perfect score:
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PIR_76:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*
                                                                                                                                                                                                                                                                                  283308 seqs, 96168682 residues
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Copyright (c) 1993 - 2004 Compugen Ltd.
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

29	28	27	26	25	24	23	22	21	20	19	18	. 17	16	15	14	13	12	11	10	9	80	7	9.	u	4.	ω	8	_	No.	000
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1360	940	871	521	451	428	69	1375	765	627	253	125	125	83	13	12	12	12	12	1567	1513	373	370	381	3020	475	335	322	493	Length	
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T12064	H86420	S68482	T38466	F83793	T48008	A86779	T37672	T09574	B84482	T47303	I50498	I50499	S10706	PQ0445	JS0424	JS0423	S42765	UOGM2	T00568	A54895	JC7289	T47131	F59101	A43932	T33943	AI3453	AF1031	JC5486		
μ.			probable NRAMP-fam	3		hypothetical prote		transport protein		cal	I	ij	urotensin II precu	urotensin II - lau	II-B	II-A	H -	Н	μ.	mucin 2, intestina	G-protein coupled	G-protein coupled	hypothetical prote		hypothetical prote	3	hypothetical prote	membrane glycoprot	iption	

45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30
33	33	33	33	33.5	33.5	34	34	34	34	34	34	34	34	34	34.5
61.1	61.1	61.1	61.1	62.0	62.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.9
155	140	100	87	258	187	2718	2704	654	523	506	504	421	392	104	235
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A99373	T33284	A31201	T33285	T30368	T10073	A23475	S09118	AH2445	B40679	A40679	A38221	T22969	T46418	S69756	T44466
conserved hypothet	hypothetical prote	GLI-related finger	hypothetical prote	probable immediate	amine dehydrogenas	G surface protein	G surface protein	hypothetical prote	transcription enha	transcription enha	chitinase (EC 3.2.	hypothetical prote	•	hypothetical prote	transposase tnpA [

ALIGNMENTS

membrane glycoprotein CD30 homolog precursor - rat

;Species: Rattus norvegicus (Norway rat)

;Date: 07-Jul-1997 #sequence_revision 29-Aug-1997 #text_change 07-Dec-1999

;Accession: JC5486

R;Aizawa, S.; Satoh, H.; Horie, R.; Ito, K.; Choi, S.H.; Takeuchi, H.; Watanabe, T.

Gene 182, 155-162, 1996

A;Title: Cloning and characterization of a cDNA for rat CD30 homolog and chromosomal asA;Reference number: JC5486; MUID:97136705; PMID:8982082

A;Concents: T. cell

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Query Match	A;Status: preliminary A;Molecule type: DNA A;Residues: I-322 <par> A;Cross-references: GB;AL513382; C;Genetics: A;Gene: STY4576</par>	Nature 413, 848-852, 2001 A,Authors: Parry, C.; Qua A;Title: Complete genome A;Reference number: AB050 A;Accession: AF1031	C;ACCEBBLON: AF1031 R;Parkhill, J.; Dougan, th, T.; Connerton, P.; , S.; Moule, S.; O'Gaor	RESULT 2 AF1031 hypothetical protein ST c; Species: Salmonella e c; Species this species ha C; Accession AF1031 C. Accession AF1031	Qy 2 CYMKVC 7 Db 304 CYMKAC 309	Query Match Best Local Similarity 83. Matches 5; Conservative	A; Concession: JC5486 A; Molecule type: mRNA A; Residues: 1-493 cAIZ> A; Cross-references: DDB F; 1-18/Domain: signal s F; 19-493/Product: membr F; 278-304/Domain: trans F; 305-493/Domain: intra
74.1%; Score 40; DB 2; Length 322;	AL513382; PIDN:CAD09351.1; PID:g16505351; GSPDB:GN00176	Nature 413, 848-852, 2001 A;Authore: Parry, C.; Quail, M.; Rutherford, K.; Simmonds, M.; Skelton, J.; Stevens, K., A;Title: Complete genome sequence of a multiple drug resistant Salmonella enterica serov A;Reference number: AB0502; MUID:21534947; PMID:11677608 A;Accession: AF1031	<pre>C;ACCESSION: AF1031 R;Parkhill, J.; Dougan, G.; James, K.D.; Thomson, N.R.; Pickard, D.; Wain, J.; Churcher, th, T.; Connerton, P.; Cronin, A.; Davis, P.; Davies, R.M.; Dowd, L.; White, N.; Farrar, , S.; Moule, S.; O'Gaora, P.</pre>	RESULT 2 AF1031 AF1031 Cypothetical protein STY4576 [imported] - Salmonella enterica subsp. enterica serovar Ty Cypothetical protein STY4576 [imported] - Salmonella enterica subsp. enterica serovar Typhi Cypotes: Salmonella enterica subsp. enterica serovar Typhi AyNote: this species has also been called Salmonella typhi Cypotes: 09-Nov-2001 #sequence_revision 09-Nov-2001 #text_change 18-Nov-2002 Cypotes: AF1031		75.9%; Score 41; DB 2; Length 493; / 83.3%; Pred. No. 23; vative 0; Mismatches 1; Indels 0; Gaps 0;	A; Contents: 1 Cert A; Accession: JC5486 A; Accession: JC5486 A; Molecule type: mRNA A; Residues: 1-493 <aiz> A; Residues: 1-493 <aiz> A; Cross-references: DDBJ:D42117; NID:g1817523; PIDN:BAA07699.1; PID:d1008282; PID:g18175; F;1-18/Domain: signal sequence #status predicted <sig> F;19-493/Product: membrane glycoprotein CD30 homolog #status predicted <mat> F;278-304/Domain: transmembrane #status predicted <tmm> F;305-493/Domain: intracellular #status predicted <int></int></tmm></mat></sig></aiz></aiz>

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RESULT 5
A43932
mucin 2 precursor, intestinal -
N;Alternate names: mucin SMUC-41
C;Species: Homo sapiens (man)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C;Accession: Al3453

R;DelVecchio, V.G.; Kapatral, V.; Redkar, R.J.; Patra, G.; Mujer, C.; Los, T.; Ivanova, .; Mazur, M.; Goltsman, E.; Selkov, E.; Elzer, P.H.; Hagius, S.; O'Callaghan, D.; Letess Proc. Natl. Acad. Sci. U.S.A. 99, 443-448, 2002

A;Title: The genome sequence of the facultative intracellular pathogen Brucella melitens A;Reference number: AD3252; PMID:11756688
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A; Residues: 1-475 <SMI>
                                                                                                                                                                                                                                                                                                                                                                                                                   A; Description: The sequence A; Reference number: Z21443 A; Accession: T33943
                                                                                                                                                                                                                                                                                                                                                                                                                                                    R;Smith, A.; Wamsley, P.; Fronick, W. submitted to the EMBL Data Library, Februa A;Description: The sequence of C. elegans
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C;Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 transcription regulator, araC family BMEI1615 (imported) - Brucella melitensis C;Species: Brucella melitensis
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ypothetical protein C01B4.7 - Caenorhabditis elegans;Species: Caenorhabditis elegans
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Best Local Similarity
Matches 5; Conserv
                                                                                                                                                                                                           Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                              Cross-references: EMBL:AF125952; PIDN:AAD14699.1; GSPDB:GN00023; CESP:C01B4.7 Experimental source: strain Bristol N2; clone C01B4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Accession: T33943
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Cross-references: GB:AE008917; PIDN:AAL52796.1; PID:g17983633; GSPDB:GN00190
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5; Conserve
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5; Conserv
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83.3%;
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                                  human (fragments)
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Pred. No. 32;
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Pred. No. 25;
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legans cosmid C01B4.
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A;Reference number: A61257; MUID:91086481; PMID:1985113
A;Accession: A61257
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A;Molecule type: DNA
A;Residues: 1343-1350,'L',1352-1411,'S',1413-1448,'P',1450-1503,'T',1505-1915 <TOR.
A;Cross-references: GB:M74027; NID:g188863; PIDN:ANAS9875.1; PID:g188864
A;Note: sequence inconsistent with the nucleotide translation
A;Note: sequence extracted from NCBI backbone (NCBIN:55749, NCBIP:55750)
R;Gum, J.R.; Byrd, J.C.; Hicks, J.W.; Toribara, N.W.; Lamport, D.T.A.; Kim, Y.S.
J. Biol. Chem. 264, 6480-6487, 1989
A;Title: Molecular cloning of human intestinal mucin cDNAs. Sequence analysis and A;Reference number: A33532; MUID:89197956; PMID:2703501
A;Accession: B33532
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A;Title: Molecular cloning of human intestinal mucin (MUC2) cDNA. Identific: A;Reference number: A49963; MUID:94132002; PMID:8300571
A;Accession: A49963
A;Map position: 11p15.5-11p15.5
C;Superfamily: von Willebrand factor; von Willebrand
C;Keywords: glycoprotein; intestine; tandem repeat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         R;Xu, G.; Huan, L.; Khatri, I.; Sajjan, U.S.; McCool, D.; Wang, D.; Jones, C.; Forstner, Biochem. Biophys. Res. Commun. 183, 821-828, 1992
A;Title: Human intestinal mucin-like protein (MLP) is homologous with rat MLP in the C-t A;Reference number: PQ0328; MUID:92198477; PMID:1550588
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Molecule type: mRNA
A;Residues: 1916-2193 <GU4>
A;Cross-references: GB:M22405; NID:g188873; PIDN:AAA36334.1; PID:g188874
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R;Toribara, N.W.; Gum Jr., J.R.; Culhane, P.J.; Lagace, R.E.; Hicks, J.W.; Petersen, G.M.
J. Clin. Invest. 88, 1005-1013, 1912
A;Title: MCC-2 human small intestinal mucin gene structure. Repeated arrays and polymorp
A;Reference number: A43932; MUID:91358717; PMID:1885763
A;Accession: A43932;
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A;Title: The human MUC2 intestinal mucin has cysteine-rich A;Reference number: A45106; MUID:93016075; PMID:1400449
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A,Experimental source: intestine R;Jany, B.H.; Gallup, M.W.; Yan, P.S.; Gum, J.R.; Kim, Y.S.; J. Clin. Invest. 87, 77-82, 1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Accession: A45106
A;Status: not compared with conceptual translation
                                                                                                                                                    A;Gene: GDB:MUC2
                                                                                                                                                                                                                        A; Molecule type: protein
A; Residues: 2328-2342, 'K', 2344-2354 < XUG1>
                                                                                                                                                                                                                                                                                                                                                                                                       A; Molecule type: mRNA
A; Residues: 2328-2468 < XUG>
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A;Residues: 'T',1925-1948,'TTS',1952-1954 <JAN>
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A; Residues: 2037-3020 < GU3>
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A; Residues: 1-639 < GU
                                                                                                          A;Cross-references: GDB:120203; OMIM:158370
                                                                                                                                                                                                                                                                                                A; Accession: PQ0329
                                                                                                                                                                                                                                                                                                                                  A;Experimental source: small
                                                                                                                                                                                                                                                                                                                                                                            A;Cross-references: GB:M86523
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factor type A repeat

homology;

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C;Accession: T47131; JC7288
R;Poustka, A.; Wellenreuther, R.;
submitted to the Protein Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               G-protein coupled receptor, SREB2 - human
()Species: Homo sapiens (man)
()Species: 20-Apr-2000 #sequence_revision 20-Apr-2000 #text_change 21-Jun-2002
                                                                                                                                                                                                                                 R;Matsumoto, M.; Saito, T.; Takasaki,
Biochem. Biophys. Res. Commun. 272,
B;Title: An evolutionarily conserved
A;Reference number: JC7287
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    hypothetical protein pXO1-86 - Bacillus anthracis virulence plasmid pXO1 C;Species: Bacillus anthracis C;Date: 12-Nov-1999 #sequence_revision 12-Nov-1999 #text_change 11-May-2000 C;Accession: F59101
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A; Residues: 1-370 < MAT>
                                                                                                                                                                                                                                                                                     A;Experimental source: adult amygdala; clone DKFZp761L08121
R;Matsumoto, M.; Saito, T.; Takasaki, J.; Kamohara, M.; Sug
                                                                                                                                                                                                                                                                                                                                                                                                A; Reference number: Z24374
A; Accession: T47131
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  R;Okinaka, R.T.; Cloud, K.; Hampton, O.; Hoffmaster, A.R.; Hill, K.K.; Keim, J. Bacteriol. 181, 6509-6515, 1999
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                                                                           Keywords:
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                                                                   G protein-coupled receptor; glycolysis; reproduction;
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83.3%;
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Score 37; DB
Pred. No. 81;
1; Mismatches
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Database, March 20
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Pred. No.
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Pred. No. 1.3e+02;
2; Mismatches 0;
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576-582,
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R;Rounsley, S.D.; Lin, X.; Ketcnum, submitted to the EMBL Data Library, submitted to the EMBL Data Library, arabidopsis thaliana
                                      hypothetical protein At2g39580 [imported] - Arabidopsis thaliana N;Alternate names: hypothetical protein F12L6.24 C;Species: Arabidopsis thaliana (mouse-ear cress) C;Date: 01-Feb-1999 #sequence_revision 01-Feb-1999 #text_change: C;Accession: T00568; B84819 C;Accession: T00568; B84819 R;Rounsley, S.D.; Lin, X.; Ketchum, K.A.; Crosby, M.L.; Brandon,
                                                                                                                                                              RESULT 10
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A;Molecule type: mRNA
A;Residues: 1-1513 <OHM>
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C;Species: Rattus norvegicus (Norway rat)
C;Date: 23-Mar-1995 #sequence_revision 23-Mar-1995
C;Accession: A54895
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A;Map position: Xp11
C;Superfamily: endothelin receptor B
C;Keywords: brain; G protein-coupled receptor; glycolysis; reproduction; transmembrane
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A;Molecule type: mRNA
A;Residues: 1-373 <MAT>
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C;Superfamily: von Willebrand
C;Keywords: intestine
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C; Genetics:
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      X.; Ketchum, K.A.; Crosby, M.L.; Brandon, R.C.; Sykes,
Data Library, July 1998
psis thaliana chromosome II BAC F12L6 genomic sequence.
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83.3%;
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66.7%;
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Pred. No. 2.4e
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urotensin II - telostean fish
C;Species: telostean fish
C;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_c
C;Accession: $42765
R;Bhaskaran, R.; Arunkumar, A.I.; Yu, C.
Biochim. Biophys. Acta 1199, 115-122, 1994
A;Title: NMR and dynamical simulated annealing studies on A;Reference number: $42765; MUID:94169160; PMID:8123660
A;Accession: $42765
A;Wolecule type: protein
A;Residues: 1-12 <BHA>
                                                                                                                                                                                                                                                             RESULT 12
S42765
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A;Residues: 1-12 <PEA>
A;Residues: 1-10 <PEA>
A;Note: the proposed sequence was confirmed by synthesis of a peptide C;Comment: Urotensin II is found in the teleost caudal neurosecretory C;Superfamily: urotensin II
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A;Status: translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Molecule type: DNA
A;Molecule type: DNA
A;Cross-references: EMBL:AC004218; NID:g3355463; PID:g3355487
A;Cross-references: EMBL:AC004218; NID:g3355463; PID:g3355487
A;Experimental source: cultivar Columbia
A;Experimental source: cultivar Columbia
M; Koo, H.; Moffat, K.S.; Cronin, L.A.; Shea, T.P.; Benito, M.I.; Town, C.D.; Fujii, C.Y.;
M.; Koo, H.; Moffat, K.S.; Cronin, L.A.; Shea, M.; VanAken, S.E.; Umayam, L.; Tallon, I
euss, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter,
Nature 402, 761-768, 1999
A;Title: Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana.
A;Reference number: A84420; MUID:20083487; PMID:10617197
A;Accession: B84819
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C;Keywords: neuropeptide; osmoregulation F;6-11/Disulfide bonds: #status experime
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A;Title: Urotensin II: a somatostatin-like peptide in the caudal neurosecretory sylA;Reference number: A01409; MUID:81054904; PMID:6107911
A;Accession: A01409
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         urotensin II - long-jawed mudsucker
C;Species: Gillichthys mirabilis (long-jawed mudsucker)
C;Date: 23-Oct-1981 #sequence_revision 23-Oct-1981 #text_change 15-Oct-1996
C;Accession: A01409
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Introns: 306/1; 346/3; 395/3; 688/1; 843/1; 945/3; 991/3; 1098/1
C;Superfamily: Arabidopsis thaliana hypothetical protein F12L6.24
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A; Residues: 1-1567 <STO>
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Pred. No. 8.5;
1; Mismatches
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Pred. No.
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urotensin II - laughing frog
C;Species: Rana ridibunda (laughing frog)
C;Date: 30-Sep-193 #sequence_revision 30-Sep-1993 #text_change 03-Mar-1995
C;Accession: PQ0445
E;Conlon, J.M.; O'Harte, F.; Smith, D.D.; Tonon, M.C.; Vaudry, H.
Biochem. Biophys. Res. Commun. 188, 578-583, 1992
A;Title: Isolation and primary structure of urotensin II from the brain of a tetrapod,
                                                                                                                                            RESULT 15
PQ0445
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             R;McMaster, D.; Lederis, K.

Peptides 4, 367-373, 1983

A;Title: Isolation and amino acid sequence of two urotensin II

A;Reference number: JS0423; MUID:84041959; PMID:6138758
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               urotensin II-B peptide - white sucker
C;Species: Catostomus commersoni (white sucker)
C;Date: 07-Sep1190 #sequence_revision 07-Sep-1990
C;Accession: JS0424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Residues: 1-12 <MCM>
C;Comment: This peptide has smooth muscle-stimulating C;Superfamily: urotensin II
F;6-11/Disulfide bonds: #status experimental
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C;Date: 07-Sep-1990 #sequence_revision 07-Sep-1990 #text_change 09-May-1997
C;Accession: JS0423
R;McMaster, D; Lederis, K.
Peptides 4, 367-373, 1983
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JS0423
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C;Keywords: neuropeptide; osmoregulation
F;6-11/Product: urotensin II #status experimental <MAT>
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C; Comment: This peptide
F; 6-11/Disulfide bonds:
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A; Residues: 1-12 <MCM>
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#status experimental
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Search completed: February 11, 2004, 06:30:56 Job time : 24 secs	Qy 2 CYWKVC 7 : Db 7 CFWKYC 12	Query Match 66.7%; Score 36; DB 2; Length 13; Best Local Similarity 66.7%; Pred. No. 9; Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;	A;Reference number: PQ0445; MUID:93075134; PMID:1445302 A;Accession: PQ0445 A;Molecule type: protein A;Residues: 1-13 <con> A;Experimental source: brain C;Superfamily: urotensin II</con>
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OM protein - protein search, using sw model
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Maximum Match 100%
Listing first 45 summaries
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

32 33	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	σ	4	ω	2		Result No.
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ALIGNMENTS

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(Rel. 41, (Rel. 42, is factor ymphocyte D30. (Rel. 42), is factor ymphocyte D30. (Rel. 42), many many many many many many many many
TANDA (A1). 41. 42. 42. 42. 42. 43. (Raactor (Raac
on activity of a company of a company of a site and a company of a site and a company of a compa
ARD; Creat Last Last Last Last Chordat Rodenti Horie H
ANDARD; 41, Created) 41, Last and 42, Last and 42, Last and 42, Last and 41, Last and 42, Last and 43, Last and 41, Last and 42, Last and 42, Last and 42, Last and 42, Last and 43, Last and 41, Rodentia; 41, Rodentia; 41, Rodentia; 61, Horie R., 61, Controllasts Re NF-kappa-B (CITY: Very 1) 61, Coltrollasts Re NF-kappa-B (CITY: Very 1) 61, And lung. Hyphytohemaggla 61, TIRSTITUTE 61, TIRSTITUTE 71, Last and Last and 61, TIRSTITUTE 71, Last and 71, Rodentia; 71, R
ARD; PRT; 493 AA. Created) Last sequence update) Last annotation update) receptor superfamily member 8 precursor (CD30L e activation antigen (CD30). at). Chordata; Craniata; Vertebrata; Euteleostomi; Rodentia; Sciurognathi; Muridae; Murinae; Rattus. Tr-cell lymphoma; bMed=8982022; Horie R., Ito K., Choi S.H., Takeuchi H., erization of a cDNA for rat CD30 homolog and nt of the genomic gene."; 6. 6. 71 To TNFSF8/CD30L. May play a role in f cellular growth and transformation of blasts. Regulates gene expression through kappa-B (By similarity). ts with TRAF1, TRAF2, TRAF3 and TRAF5 (By TTON: Type I membrane protein (Probable). TY: Very low level of expression. Detected in rol lung. Highly expressed in HTLV-1 infected T- ycohemagglutinin (PHA) in spleen T-cells. ains 3 TNFR-Cys repeats.
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493 AA. e update) ion update) erfamily member 8 precursor ntigen CD30). a; K., Choi S.H., Takeuchi H. CDNA for rat CD30 homolog mic gene."; CDNL. May play a role in wth and transformation of tes gene expression through imilarity). TRAF2, TRAF3 and TRAF5 (By embrane protein (Probable). evel of expression. Detecte y expressed in HTLV-1 infec in (PHA) in spleen T-cells. s repeats
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A. A. te) member 8 precurso D30). Tebrata; Euteleos ; Muridae; Murinae ; Muridae; Murinae ; Muridae; Murinae ; Muridae; Murinae ir rat CD30 homolog transformation of expression throug y). TRAF3 and TRAF5 (B protein (Probable) securesion. Detect sed in HTLV-1 infe in spleen T-cells s. in spleen T-cells s. produced through a tics and the EMB tics and the E
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update) on update) rfamily member 8 precursor (CD30L tigen CD30). i cognath; Muridae; Murinae; Rattus. cognath; Muridae; Murinae; Rattus. cCNNA for rat CD30 homolog and ic gene."; D30L. May play a role in th and transformation of es gene expression through milarity). TRAF3 and TRAF5 (By mbrane protein (Probable). vel of expression. Detected in expressed in HTLV-1 infected T- n (PHA) in spleen T-cells. repeats. It is produced through a collaboration informatics and the EMBL outstation - te. There are no restrictions on its slong as its content is in no way removed. Usage by and for commercial nt (See http://www.isb-sib.ch/announce/ .nl). B_NEG. ELULAR (POTENTIAL).

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                 MGD; MGI:99908; Tnfref8.
InterPro; IPR001368; TNFR |
Pfam; PF00020; TNFR c6; 3.
SMART; SM00208; TNFR; 3.
                                                                                                                         This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the Exthe European Bioinformatics Institute. There are no restrues by non-profit institutions as long as its content modified and this statement is not removed. Usage by and entitles requires a license agreement (See http://www.isb-sor send an email to license@isb-sib.ch).
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28-FEB-2003 (Rel. 41, Last sequence update)
15-SEP-2003 (Rel. 42, Last annotation update)
Tumor necrosis factor receptor superfamily member receptor) (Lymphocyte activation antigen CD30).
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                                                                       EMBL; U25416; AAA92887.1; -. MGD; MGI:99908; Thfref8.
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STRAIN=BALB/c; TISSUE=Splenocyte;
MEDLINE=96132967; PubMed=8543792;
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   PROSITE;
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J. Immunol. 156:442-449(1996)
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Mammalia; E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mus musculus (Mouse)
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SUBUNIT: Intersects with TRAF1, TRAF2, TRAF3 and TRAF5 (By
                                                                                                                                                                                                                                                                          SIMILARITY:
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Receptor;
SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE=94132002; PubMed=8300571; Gum J.R. Jr., Hicks J.W., Toribara N.W., "Molecular cloning of human intestinal mu Identification of the amino terminus and to prepro-von Willebrand factor."; J. Biol. Chem. 269:2440-2446(1994).
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TRANSMEM
          and polymorphism.";
J. Clin. Invest. 88
-!- FUNCTION: COATS
                                                                            Toribara N.W., Gum J.R. Jr., Culhand Petersen G.M., Kim Y.S.; "MUC-2 human small intestinal mucin
                                                                                                                                                                                                                                                                                                      Gum J.R. Jr.,
Kim Y.S.;
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Eukaryota; Metazoa;
Mammalia; Eutheria;
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                                                                                                                                                                                                                                                                                                                                                       MEDLINE=93016075; PubMed=1400449;
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POTENTIAL
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CYTOPLASMIC (POTENTIAL).

TNER-CYS 1.

TNER-CYS 2.

TNER-CYS 3.

BY SIMILARITY.

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Pred. No.
                                                                                                                                Culhane
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                                                                                                                             P.J.,
                                                                                                                                                                                                                                                                               cysteine-rich
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                                                                                                                                                                              N.A.
                                                                                                                                                                                                                                                                                                                                Rothe E.-M.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         overall sequence similarity
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                                                                                  structure.
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                                                                                                                             Lagace R.
                                                                                                                                                                                                                                                        repetitive
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                                                                                                                             Hicks J.W.,
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InterPro; IPRO06209; Cys knot C.
InterPro; IPRO06209; EGF like.
InterPro; IPRO06209; EGF like.
InterPro; IPRO01209; TLL Cysrich.
InterPro; IPRO01007; VWF C.
InterPro; IPRO01007; VWF C.
InterPro; IPRO01007; Cys knot; 1.
Pfam; PPO0007; Cys knot; 1.
Pfam; PPO10826; TIL; 1.
Pfam; PPO10826; TIL; 1.
Pfam; PPO0093; vwc; 1.
Pfam; PPO0093; vwc; 1.
Pfam; PPO0094; vwd; 4.
SMART; SM00214; VWG; 2.
SMART; SM00216; VWD; 4.
PROSITE; PS01185; CTCK 2; 2.
PROSITE; PS01225; CTCK 2; 1.
PROSITE; PS01208; VWFC 1; 2.
PROSITE; PS01208; VWFC 1; 2.
PROSITE; PS01208; VWFC 2; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EMBL; L21998; AAB95295.1; -.
EMBL; M74027; AAA59875.1; -.
EMBL; M94131; AAA59163.1; -.
EMBL; M94132; AAA59164.1; -.
PIR; A49963; A43932.
Genew; HGNC:7512; MUC2.
                                                                                                                                                                                                                                                                                    PROSITE; PS000
PROSITE; PS012
PROSITE; PS501
Glycoprotein;
SIGNAL 2
CHAIN 140
REPEAT 140
REPEAT 141
REPEAT 144
REPEAT 146
REPEAT 146
REPEAT 146
REPEAT 146
REPEAT 146
REPEAT 146
REPEAT 147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           This SWISS-PROT entry is copyright. It is produced through a collable between the Swiss Institute of Bioinformatics and the EMBL outst the European Bioinformatics Institute. There are no restrictions use by non-profit institutions as long as its content is in modified and this statement is not removed. Usage by and for commodified and this statement is not removed.
    REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGENTS AT MUCOSAL SURFACES.

- SUBGUNIT: MULTIMERIC.
- SUBCELLULAR LOCATION: Secreted.
- TISSUE SPECIFICITY: COLON, SMALL INTESTINE, COLONIC TUME
BRONCHUS, CERVIX AND GALL BLADDER.
- PTM: ALL CYSTEINE RESIDUES ARE INVOLVED IN INTRACHAIN OF
INTERCHAIN DISTULFIDE BONDS (BY SIMILARITY).
- POLYMORPHISM: THE NUMBER OF REPEATS IS HIGHLY POLYMORPHI
VARIES AMONG DIFFERENT ALLELES.
- SIMILARITY: Contains 1 C-terminal cystine knot-like (CTC-
- SIMILARITY: Contains 2 VWFC domains.
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GO; GO:0005803;
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C:secretory vesicle;
    Signal
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7B.
8A.
8B.
9A.
10A.
10B.
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MUCIN 2.
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Best Local S
Matches 4
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SRB3 BRARE
Q91918;
16-OCT-2001
16-OCT-2001
16-OCT-2001
                                                           Lidunydanio rerio (Zebrafish) (Danio rerio).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
Cyprinidae; Danio.
NCBI_TaxID=7955;
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SEQUENCE FROM N.A.
MEDLINE=20294882; PubMed=10833454;
Matsumoto M., Saito T., Takasaki J.,
Kobayashi M., Tadokoro M., Matsumoto
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                                                                                                                                                                                                                                                                                             1238 CYWEIC 1243
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l (Rel. 40, Las
l (Rel. 40, Las
arved receptor
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4752
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1442
11449
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4192
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                                                                                                                                                                                                                                                                                                                                                                                                                         74.1%;
66.7%;
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                                                                                                                                                    Last sequence up
Last annotation
tor expressed in
                                                                                                                                                                                              Created)
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H -> L (IN REF. 3)
T -> S (IN REF. 3)
L -> P (IN REF. 3)
M -> T (IN REF. 3)
G -> S (IN REF. 2).
                                                                                                                                                                                                                                                                                                                                                   Score 40; DB Pred. No. 84; 2; Mismatches
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VWFC 2.

CTCK.

BY SIMILARITY.

BY SIMILARITY.

BY SIMILARITY.

BY SIMILARITY.

N-LINKED (GLCN)

N-LINKED (GLCN)
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                                                                                                                                                                                update)
Kamohara M., Sugimoto T
S., Ohishi T., Furuichi
                                                                                                                                                      update)
brain 3.
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(POTENTIAL)
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RESULT 5
MC4A PIG
ID MC4A PAG
ID MC4A PAG
ID 16-0
DT 16-0
DT 16-0
DT 16-0
DT Mela
GN MC4B
GN MC8B
OC Mamm
OX NCBI
RN [1]
RP SEQU
RC STRJ
RA Ito
RD SEQU
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local S
Matches 7
                                                                                                                                                                                        MC4R PIG STANDARY,
MC97504; Q9N141; Q9N274;
097504; Q9N141; Q9N274;
16-OCT-2001 (Rel. 40, Created)
16-OCT-2001 (Rel. 40, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
16-OCT-2001 (Rel. 40, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PEAM; PF00001; 7tm_1; 1.

PRINTS; PR00237; GPCRRHODDDSN.

PROSITE; PS00237; GPROTEIN_RECEP_F1_1; FALSE_NEG.

PROSITE; PS00237; G_PROTEIN_RECEP_F1_2; 1.

G-protein coupled receptor; Transmembrane; Glycoprotein;

G-protein coupled receptor; Transmembrane; Glycoprotein;

Multigene family.
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TRANSMEM
DOMAIN
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TRANSMEM
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ZFIN; ZDB-GENE-000710-1; sreb3.
Interpr; IPR000276; GPCR_Rhodpsn.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "An evolutionarily conserved G-protein coupled receptor family, SREB, expressed in the central nervous system."; Biochem. Biophys. Res. Commun. 272:576-582 (2000).

- 1 - FUNCTION: ORPHAN RECEPTOR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           the European Bioinformatics Institute. There are no rest
use by non-profit institutions as long as its content
modified and this statement is not removed. Usage by ar
                                                                SEQUENCE FROM N.A.
STRAIN=LWD; TISSUE=Kidney;
                                                                                                                                      Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DOMAIN
 SEQUENCE OF 73-320 FROM N.A.,
                                  Submitted (DEC-1998) to the EMBL/GenBank/DDBJ databases
                                                                                                                  NCBI_TaxID=9823;
                                                                                                                                                                        Sus scrofa (Pig).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SUBCELLULAR LOCATION: Integral membrane protein (By similarity). SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SWISS-PROT entry is copyright. It is produced through a collaboration een the Swiss Institute of Bioinformatics and the EMBL outstation - Buropean Bioinformatics Institute. There are no restrictions on its
                                                                                                                                                                                                                                                                                                                                                                                   319
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                                                    Minezawa M.
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1111
108
1111
1132
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1188
                                                                                                                                      Chordata; Craniata; Vertebrata; Euteleostomi; Cetartiodactyla; Suina; Suidae; Sus.
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pred. No. 12;
1; Mismatches
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EXTRACELLULAR (POTENTIAL)
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1 (POTENTIAL).
 AND VARIANT ASN-298
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-LINKED (GLCNAC. . .) (POTENTIAL)
5E094EFD44120871 CRC64;
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12;
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GP85_HUMAN
ID GP85_HI
AC Q9NPD1
DT 16-OCT
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                                                RESULT 6
                                                                                                                                    Query Match
Best Local S
Matches 5
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EMBL; AF087937; AAF31753.1; -.
EMBL; AF227727; AAF34778.1; -.
InterPro; IPR000276; GPCR_Rhodpsn.
Pfam; PF00001; 7tm 1; 1.
PRINTS; PR00237; GPCRRHODDPSN.
PROSITE; PS00237; GPROTEIN RECEP_F1 1; 1.
PROSITE; PS00237; G PROTEIN RECEP_F1 2; 1.
G-protein coupled receptor; Transmembrane; Glycoprotein; G-protein; Lipoprotein; Palmitate; Polymorphism.
GP85 HUMAN STANDARD;
Q9NPD1; Q9JH16;
16-OCT-2001 (Rel. 40, Created)
                                                                                                                                                                                                                                                              CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                  DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                      TRANSMEM
DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the El the European Bioinformatics Institute. There are no rest
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MALTEST R.L., Dyer C.J.;

Submitted (JAN-2000) to the EMBL/GenBank/DDBJ databases.

-!- FUNCTION: RECEPTOR SPECIFIC TO THE HEPTAPETIDE CORE COMMON TADRENCORFICOTROPIC HORMONE AND ALPHA-, BETA-, AND GAMMA-MSH.

THIS RECEPTOR IS MEDIATED BY G PROTEINS THAT STIMULATES ADEN'S CYCLASE (BY SIMILARITY).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE=20122164; PubMed=10656927;
Kim K.S., Larsen N., Short T., Plastow G., Rothschild M.F.;
"A missense variant of the porcine melanocortin-4 receptor (M
"A missense variant of the porcine and feed intake traits.";
                                                                                                                                                                                      SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Phosphorylation;
DOMAIN 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   use by non-profit institutions as long a modified and this statement is not removed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mamm. Genome 11:131-135(2000).
                                                                                                                                                                                                                                                                                      DOMAIN
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                                                                                                                                                                                                                          VARIANT
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                                                                                                                                                                                                                                                                                                               DOMAIN
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                                                                                                                                                                                                                                       JIPID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SUBCELLULAR LOCATION: Integral membrane protein.
SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS
                                                                                                                                    Similarity
5; Conserv
                                                                                                             1 ACYWKVCT 8
                                                                                      SCIWAVCT 178
                                                                                                                                                                                      332
                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                     44
70
82
107
124
146
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                                                                                                                                                                                                                                                                                  36946 MW;
                                                                                                                                                  68.5%;
62.5%;
                                                                                                                                                  Score 37;
Pred. No.
                                                                                                                                                                                                                       PALMITATE (POTENTIAL).
D -> N (ASSOCIATED WITH LESS BACKFAT
                                                                                                                                                                                                                                              CYTOPLASMIC (POTENTIAL)
N-LINKED (GLCNAC...)
N-LINKED (GLCNAC...)
N-LINKED (GLCNAC...)
                                                                                                                                                                                                    FEED INTAKE)
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6 (POTENTIA)
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CYTOPLASMIC (
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2 (POTENTIA)
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                                                                                                                                                                                                              THICKNESS,
                         PRT;
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THAT STIMULATES ADENYLATE
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                                                                                                                                                            Length 332;
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IN BRAIN

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Richards P.L., Peingold E.A., Grouse L.H., Derge J.G.,

Kilausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,

A Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

A Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Hopkins R.F., Jordan H., Moore T., Rasavant T.L., Scheet T.E.,

B Hopkins R.F., Jordan R., Foshiyuki S., Carninci P., Prange C.,

A Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheet T.E.,

B Krownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

A Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

A Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

A Whiting M., Madan A., Young A.C., Shewchenko Y., Bouffard G.G.,

A Hokesley R.W., Touchman J.W., Green E.D., Dickson M.C.,

A Butterfield Y.S.N., Krzywinski M.I., Schalska U., Smailus D.E.,

Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,

"Generation and initial analysis of more than 15,000 full-length

Thuman and mouse cDNA sequences.",

"Generation and property D. Prange C.,

"Generati
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SPECIES=Human, and Rat; TISSUE=Brain; MEDLINE=20294882; PubMed=10833454; Matsumoto M., Salto T., Takasaki J., Kamohara M., Sugimoto T., Kobayashi M., Tadokoro M., Matsumoto S., Ohishi T., Furuichi K.; "An evolutionarily conserved G-protein coupled receptor family, SREB, expressed in the central nervous system."; Biochem. Biophys. Res. Commun. 272:576-582(2000).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SPECIES=Human, and Mouse; STRAIN=CD-1; TISSUE=Brain, and Fetal brain MEDLINE=20435311; PubMed=10978537; Hellebrand S., Schaller, Wittenberger T.; Hellebrand S., Schaller H.C., Wittenberger T.; "The brain-specific G-protein coupled receptor GPR85 with identical protein sequence in man and mouse maps to human chromosome 7q31."; Biochim. Biophys. Acta 1493:269-272(2000).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              expressed in brain 2) (PKrCx1).
GPR85 OR SREB2.
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Poustka A., werre
Poustka A., werre
Poustka A., werre
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SPECIES=Rat; STRAIN=Sprague-Dawley;
Kim H., Park S., Kang Y., Kim C., Jeon J.;
Submitted (NOV-1999) to the EMBL/GenBank/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SPECIES=Human;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SPECIES=Mouse;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A.
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FUNCTION: ORPHAN RECEPTOR.
SUBCELLULAR LOCATION: Integral membrane protein (
TISSUE SPECIFICITY: IN HUMAN HIGHLY EXPRESSED IN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               001 (Rel. 40, Last sequence update)
003 (Rel. 42, Last annotation update)
G protein-coupled receptor GPR85 (Super conserved receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sato T.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (JUL-2001) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     an; TISSUE=Amygdala;
Wellenreuther R., N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STRAIN=C57BL/6; TISSUE=Eye;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Okouchi I., Arita atani H., Asai K., overy and analysis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           to
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                M., Futami K., Matsumoto S.,
Akiyama Y.;
of human seven transmembrane
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   seven transmembrane
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     (By similarity).

| BRAIN AND TESTIS.
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GP85_

BRARE

GP85_BRARE Q9I919;

STANDARD;

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RESULT

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SESSIBS

Super conserved SREB2.

16-OCT-2001 (Rel. 40, Created)
16-OCT-2001 (Rel. 40, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
16-OCT-2001 (Rel. 40, Last annotation update)

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                                           Query Match
Best Local S
Matches
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EMBL; AB040800; BAA96646.1; -
EMBL; AL161959; CAB82307.1; -
EMBL; AF254416; AAF79959.1; -
EMBL; AB065688; BAC05911.1; -
EMBL; AB040803; BAA96649.1; -
EMBL; AF203907; AAG42284.1; -
EMBL; BC026975; AAH26975.1; -
EMBL; BC026975; AAH26975.1; -
PIR; T47131; T47131.
                                                                                         CARBOHYD
CARBOHYD
CARBOHYD
SEQUENCE
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DOMAIN
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Multigene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                   PRINTS; PR00237; GPCRRHODOPSN.
PROSITE; PS00237; G_PROTEIN_RECEP_F1_1;
PROSITE; PS50262; G_PROTEIN_RECEP_F1_2;
                                                                                                                                                                                                                                                                                                                                                                                   GO; GO:0007165; P:signal transduction; InterPro; IPR000276; GPCR_Rhodpsn. Pfam; PF00001; 7tm_1; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                         MGD;
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the European Bioinformatics Institute
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                                                                                                                                                                                                                                                                                                                                                                                                                                               Genew; HGNC:4536; GPR85
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REGIONS, DETECTED IN ALL REGIONS TESTED, BUT SOMEWHAT LOWER LEIN THE CORPUS CALLOSUM, MEDULLA AND SPINAL CORD. IN THE MOUSE EXCLUSIVELY EXPRESSED IN BRAIN.

SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LOWER LEVELS IN SMALL INTESTINE, PLACENTA AND SPLEEN. IN BRACEGIONS, DETECTED IN ALL REGIONS TESTED, BUT SOMEWHAT LOWER
                                                                                                                                                                                                                                                                                                                                                                                                                         MGI:1927851;
304
                       1 ACYWKV 6
                                            Similarity 5; Conserv
 ACYWRV 309
                                                                                                                                                                                                                                                                                                                             coupled receptor;
family.
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83.3%;
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                                                                   Score 37;
                                                                                                      N-LINKED
                                                                                                                                                                                                                                                                                           EXTRACELLULAR (POTENTIAL) 1 (POTENTIAL) . CYTOPLASMIC (POTENTIAL) .
                                                          Pred. No.
                                                                                                                           BY SIMILARITY.
N-LINKED (GLCN
                                                                                                                                                 7 (POTENTIAL)
CYTOPLASMIC (
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6 (POTENTIA)
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CYTOPLASMIC (
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3 (POTENTIAL).
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                                              Mismatches
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                                                                   Length 370;
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Best Local S
Matches 5
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16-OCT-2001
16-OCT-2001
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Multigene
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ZFIN; ZDB-GENE-000710-2; sreb2.
InterPro; IPR000276; GPCR_Rhodpsn.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matsumoto M., Saito T., Takasaki J., Kamohara M., Sugimoto T., Kobayashi M., Tadokoro M., Matsumoto S., Ohishi T., Furuichi K.; "An evolutionarily conserved G-protein coupled receptor family, SREB, expressed in the central nervous system."; Biochem. Biophys. Res. Commun. 272:576-582(2000).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDLINE=20294882; PubMed=10833454; Matsumoto M., Saito T., Takasaki J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Brachydanio rerio (Zebrafish) (Danio rerio).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
Cyprinidae; Danio.
           Super conserved SREB3.
                                                                                                                                                                                                                                   SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SUBCELLULAR LOCATION: Integral membrane protein (By similarity). SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
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Buropean Bioinformatics Institute. There are no restrictions
by non-profit institutions as long as its content is in
sapiens (Human)
                                                                                HUMAN
                                                                                                                                          305
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5; Conserv
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; PS00237; G 1;
; PS50262; G 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                         coupled receptor;
family.
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371
                                 (Rel. 40, Created)
(Rel. 40, Last sequence update)
(Rel. 42, Last annotation updat
                                                                                                                                                                                       Conservative
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97
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                                                                                STANDARD;
                    receptor
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                    st annotation update) expressed in brain 3
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N-LINKED
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EXTRACELLULAR (POTENTIAL)

3 (POTENTIAL)
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5 (POTENTIAL)
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Pred. No.
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7 (POTENTIAL).
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6 (POTENTIA)
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RA Strausberg R.D., Collins F.S., Wagner L., Schaefer C.M., Schuler G.D., RA Altachul S.F., Zeebberg B., Buetow K.H., Schaefer C.F., Bhat N.K., RA Altachul S.F., Zeebberg B., Buetow K.H., Schaefer C.F., Bhat N.K., RA Altachul S.F., Zeebberg B., Buetow K.H., Schaefer C.F., Bhat N.K., RA Altachul S.F., Zeebberg B., Buetow K.H., Schaefer C.F., Bhat N.K., RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L., RA Brownstein M.J., Usdin T.B., Toshiyuki S., Casavant T.L., Scheetz T.E., RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C., RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C., RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H., RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W., RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W., RA Richards S., Worley D.M., Sodergren E.J., Lu X., Gibbs R.A., RA Willalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A., RA Willalon D.K., Watchan J.W., Green E.D., Dickson M.C., RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C., RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C., RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E., RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;

"Generation and initial analysis of more than 15,000 full-length Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eukaryota; Metazo
Mammalia; Eutheri
NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Kobayashi M., Tadokoro M., Matsumoto S., Ohishi T., Furuichi K., "An evolutionarily conserved G-protein coupled receptor family, expressed in the central nervous system.", Biochem. Biophys. Res. Commun. 272:576-582(2000).
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Matsumoto M., Saito T., Takasaki J.,
Kobayashi M., Tadokoro M., Matsumoto
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         -1- SUBCELLULAR LOCATION: Integral membrane protein (By s:
-1- TISSUE SPECIFICITY: Expressed at high levels in brain Lower levels in small intestine. In brain regions, det
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDLINE=22388257; PubMed=12477932;
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SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FUNCTION: ORPHAN RECEPTOR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           regions tested. Highest levels in the cerebellum and cerebral
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                N.A.
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S., Ohishi T.,
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detected in a
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DOMAIN TRANSMEM TRANSMEM DOMAIN TRANSMEM Multigene DOMAIN PRINTS; PRO0237; GPCRRHODOPSN.

PRINTS; PRO0237; G_PROTEIN_RECEP_F1_1; FALSE_NEG
PROSITE; PS00237; G_PROTEIN_RECEP_F1_2; 1.

PROSITE; PS50262; G_PROTEIN_RECEP_F1_2; 1.

Transmembrane; Glycop EMBL; AB040801; BAA96647.1; EMBL; BC009861; AAH09861.1; entities requires a license agreement (Some send an email to license@isb-sib.ch). This PIR; JC7289; JC7289. MIM; 300253; -. modified the European Bioinformatics Institute. TRANSMEM Pfam; PF00001; 7tm_1; 1 GO; GO:0007165; P:signal transduction; DOMAIN InterPro; SWISS-PROT entry is copyright. It is produced through a ceen the Swiss Institute of Bioinformatics and the EMBL non-profit institutions as long as its content and this statement is not removed. Usage by ar fami IPR000276; 27 48 60 81 98 119 26 47 59 80 97 118 139 GPCR_Rhodpsn. 3 (POTENTIAL)
CYTOPLASMIC (1
4 (POTENTIAL) EXTRACELLULAR
3 (POTENTIAL) CYTOPLASMIC 2 (POTENTIA) EXTRACELLULAR (POTENTIAL) EXTRACELLULAR (POTENTIAL) (POTENTIAL) (POTENTIAL) (See http://www.isb-sib. There are no (POTENTIAL). (POTENTIAL). (POTENTIAL) Glycoprotein; restrictions on collaboration -.ch/announce, 'n 5

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RESULT
SRB3_RA
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CARBOHYD
CARBOHYD
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Multigene
                                                                                                                                                                                                                     use by non-profit institutions as long as its content is in modified and this statement is not removed. Usage by and for comentities requires a license agreement (See http://www.inh...
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16-OCT-2001 (Rel. 40, Created)
16-OCT-2001 (Rel. 40, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
Super conserved receptor expressed in brain 3.
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                                                                                                                                            InterPro; IPR000276; GPCR_Rhodpsn.
Pfam; PF00001; 7tm 1; 1.
PRINTS; PR000237; GFCRRHODOPSN.
PROSITE; PS00237; G PROTEIN_RECEP_F1_2;
PROSITE; PS50262; G_PROTEIN_RECEP_F1_2;
                                                                                                                                                                                                                                                                                                                                      MEDLINE=20294882; PubMed=10833454; Matsumoto M., Saito T., Takasaki J., Kamohara M., Sugimoto T., Kobayashi M., Tadokozo M., Matsumoto S., Ohishi T., Furuichi K.; "An evolutionarily conserved G-protein coupled receptor family, texpressed in the central nervous system."; Biochem. Biophys. Res. Commun. 272:576-582 (2000).
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                                                                                                                                                                                                                                                                               This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the EN
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                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota; Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Rattus norvegicus (Rat).
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Rodentia;
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                                                                                                                                Transmembrane; Glycoprotein;
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N-LINKED (GLCNAC. . .) (POTENTIAL)
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EXTRACELLULAR (POTENTIAL) 5 (POTENTIAL). CYTOPLASMIC (POTENTIAL).
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CYTOPLASMIC (POTENTIAL).
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3 (POTENTIAL).
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7 (POTENTIAL).
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                                                                                                           EXTRACELLULAR (POTENTIAL).
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                                 (POTENTIAL)
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                                                                                                                                                     FALSE_NEG
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RESULT 10
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095438; Q9UJF3; Q9UMW2;
16-OCT-2001 (Rel. 40, Created)
16-OCT-2001 (Rel. 40, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Vascular non-inflammatory molecule 2 precursor (Vanin 2)
(Glycosylphosphatidyl inositol-anchored protein GPI-80)
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DOMAIN
   - -
                                                          Naito K., Kawaguchi A.;
Naito K., Kawaguchi A.;
"Homo sapiens mRNA for FOAP-4 protein, complete cds.";
"when tred (APR-1999) to the EMBL/GenBank/DDBJ database
                                                                                                                                                                                                                                                                                        MEDLINE=99218457; PubMed=10201959;
Suzuki K., Watanabe T., Sakurai S.-I.,
Araki A., Fujita T., Takei H., Takeda
Araki Y., Sendo F.;
                                                                                                                                                                                                                                                                                                                                                                           Theillet C., Naquet P.; "Theillet C., Naquet P.; "Two human genes related to murine vanin-1 are located on the long arm of human chromosome 6."; "Genomics 53:203-213(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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                                     -!- TISSUE SPECIFICITY: EXPRESSED
                                                                                                                      SEQUENCE FF
                                                                                                                                                                                                                                                                                                                                                                                                                     MEDLINE=99009335; PubMed=9790769;
Galland F., Malergue F., Bazin H., Mattei M.-G., Aurrand-Lions M.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE
                                                                                                                                                                                           Takayama K., Fujii Y.,
                                                                                                                                                                                                                                                       migration."
                                                                                                                                                                                                                                                                 "A novel glycosylphosphatidyl inositol-anchored protein on human leukocytes: a possible role for regulation of neutrophil adherence and
                                                                                                                                                                                                                                                                                                                                                                                                                                                   TISSUE=Kidney;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NCBI_TaxID=9606;
                                                                                                                                                                                                      FISSUE=Blood;
                                                                                                                                                                                                                    SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                         FISSUE=Peripheral blood;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                protein).
                                                                                                                                                                                                                                           Immunol. 162:4277-4284(1999)
LYMPHOCYTES, AND KIDNEY.
SIMILARITY: BELONGS TO THE CN HYDROLASE FAMILY.
SIMILARITY: Contains 1 CN hydrolase domain.
                                                 (Potential).
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L; Mismatches
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N-LINKED (GLCNAC. . .) (POTENTIAL).
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EXTRACELLULAR (POTENTIAL)
7 (POTENTIAL).
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                                     IN SPLEEN,
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              BTD/VNN SUBFAMILY
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PARCE PART ARE RECEPTED TO THE PROPERTY OF THE
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Best Local S
Matches 5
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R InterPro; IPR003010; Ntlse/CNhydtse.
Pfam; PF00795; CN hydrolase; 1.
PROSITE; PS50263; CN HYDROLASE; 1.
Hydrolase; Signal; GTycoprotein: GPT---
SIGNAL
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Q62635;
28-FEB-2003
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SEQUENCE OF 21-36.
SEQUENCE OF 21-36.
TISSUE-Intestinal epithelium;
MEDLINE-98180965; PubMed-9512496;
Khatri I.A., Forstner G.G., Forstner J.F.;
                                                                                              airway.";
J. Biol.
                                                                                                                                                                         MEDLINE-94299489; PubMed-8027037;
MEDLINE-94299489; PubMed-8027037;
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DOMAIN
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                                                                                                                              Ohmori H., Dohrman A.F.,
Kim Y.S., Basbaum C.B.;
"Molecular cloning of the
gene homologue. Evidence
                                                                                                                                                                                                                                                                         Eukaryota; Metazoa;
Mammalia; Eutheria;
NCBI_TaxID=10116;
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2003 (Rel. 41, Last sequence update)
2003 (Rel. 41, Last anotation update)
precursor (Intestinal mucin 2) (Fragment).
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VASCULAR NON-INFLAMMATORY MOLECULE
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(IN REF. 4).
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in both intestine
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Biochem. J. 331:323-330(1998).
-!- FUNCTION: Coats the epithelia of the intestines, airways, and other mucus membrane-containing organs. Thought to provide a protective, lubricating barrier against particles and infectious
                                                                                                                                                                                                    REPEAT
REPEAT
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REPEAT
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SIGNAL 1
CHAIN 21
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PROSITE; PS01208; VWFC 1; PALSE NEG-
PROSITE; PS50184; VWFC 2; PALSE NEG-
                                                                                                                                                                                                                                                                                                                                                                                           InterPro; IPR001007; VWF C.
InterPro; IPR001846; VWF D.
Pfam; PF01826; TIL; 1.
Pfam; PF00094; vwd; 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  agents at mucosal surfaces.
-!- SUBUNIT: Multimeric.
-!- SUBCELLULAR LOCATION: Secreted.
-!- TISSUE SPECIFICITY: Expressed in int
-!- SIMILARITY: Contains 1 VWPC domain.
-!- SIMILARITY: Contains 3 VWFD domains
                                                                                                                                                                                                                                                                                                                                                                            SMART; SM00214; VWC;
SMART; SM00216; VWD;
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2 CYWKVC 7
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VWFD 3.
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                                    Length 1513;
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RESULT 13
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UR2A_CATCO
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13-AUG-1987 (Rel. 05, Last sequence update
16-OCT-2001 (Rel. 40, Last annotation upda
Urotensin IIA (U-IIA) (UIIA).
Catostomus commersoni (White sucker).
Eukaryota; Metazoa; Chordata; Craniata; Ve
Actinopterygii, Neopterygii; Teleostei; Os
Catostomidae; Catostomus.
Hormone.
DISULFID
SEQUENCE
                                                                                                                                                                                                                "Isolation and amino acid sequence of two urotensin II Catostomus commersoni urophyses.";
Peptides 4:367-373(1983).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              P04559;
13-AUG-1987 (Rel. 05, Created)
13-AUG-1987 (Rel. 05, Last sequence up
16-OCT-2001 (Rel. 40, Last annotation
Urotensin IIB (U-IIB) (UIIB).
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                                                                                                                                                                                                                                                                                                                                                                                                            Catostomus commersoni (White sucker).
Bukaryota; Metazoa; Chordata; Craniata;
Actinopterygii; Neopterygii; Teleostei;
Catostomidae; Catostomus.
                                                                                                                                               -i- FUNCTION: UROTENSIN IS FOUND IN SYSTEM. IT HAS A SUGGESTED ROLE CORTICOTROPIN-RELEASING FACTOR.
-i- SIMILARITY: BELONGS TO THE UROTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              UR 2B
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NCBI_TaxID=7971;
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                                                                   PROSITE; PS00984;
                                                                                     PIR; JS0424; JS0424.
InterPro; IPR001483; Urotensin_II.
Pfam; PF02083; Urotensin_II; 1.
                                                                                                                                                                                                                                                                                                                                               SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                   NCBI_TaxID=7971;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MCMaster D., Lederis K., 
"Isolation and amino acid sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDLINE=84041959; PubMed=6138758;
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66.7%;
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                                                                                                                                                   THE UROTENSIN
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Pred. No.
  73961BDBB879CEBB CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             969C76DBB879CEBA CRC64;
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on update)
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Ostariophysi; Cypriniform
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RESULT 14
UR2B_CG
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UR2_GILMI
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       CREATE AND COCCOCC
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Best Local S
Matches 4
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Best Local S
Matches 4
                                                                                                                                                                                                                                                                                                           UR2 GILMI STANDARD; PRT; 12 AA.

P01147;

P01147;

21-UUL-1986 (Rel. 01, Created)

21-UUL-1986 (Rel. 01, Last sequence update)

16-OCT-2001 (Rel. 40, Last annotation update)

Urotensin II (U-II) (UII).

Gillichthys mirabilis (Long-jawed mudsucker).

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;

Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes; Gobioidei;

Gobiidae; Gillichthys.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pierce Chemical Co., Rockford II. (1981).

-!- FUNCTION: UROTENSIN IS FOUND IN THE TELEOST CAUDAL NEUROSECRETORY SYSTEM. IT HAS A SUGGESTED ROLE IN OSMOREGULATION AND AS A CORTICOTROPIN-RELEASING FACTOR.

-!- SIMILARITY: BELONGS TO THE UROTENSIN 2 FAMILY.
InterPro; IPR001483; Urotensin II.
Pfam; PF02083; Urotensin II; 1.
PROSITE; PS00984; UROTENSIN_II; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DISULFID
VARIANT
   neurosecretory system of fishes.";
Proc. Natl. Acad. Sci. U.S.A. 77:50:
-!- FUNCTION: UROTENSIN IS FOUND IN
                                                                                             MEDLINE=81054904; PubMed=6107911;
Pearson D., Shively J.E., Clark B.R., Gesch
Nishioka R., Bern H.A.;
"Urotensin II: a somatostatin-like peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Munekata E., Ohtaki T., Ichikawa
(In) Rich D.H., Gross E. (eds.);
Proceedings of the 7th american
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Eukaryota; Metazoa; Chordata;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  P04561;
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1., Gross E. (eds.);
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05, Last
40, Last
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73960A9FB879CEBB
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Pred. No.
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Pred. No. 1.5;
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77:5021-5024(1980).
UND IN THE TELEOST CAUDAL NEUROSECRETORY
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                                                                                                                                                                      Geschwind I.I.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 pp.69-72,
                                                                                                                                                                             Barkley M.,
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SUMMARIES

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ALIGNMENTS

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Zhang C.X., Jin w.K.;
Submitted (SEP-2000) to the EM
EMBL; AP303045; AAK96351.1; -
Hypothetical protein.
SEOUENCE 192 AA; 22745 MW;
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Q1-DEC-2001 (TrEMBLrel. 19, Last
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Hypothetical 22.7 kDa protein.
Helicoverpa armigera nuclear pol
Viruses, dsDNA viruses, no RNA s
Nucleopolyhedrovirus.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Zhang C.X., Wu J.C.;
"Genome structure and the p10
nucleopolyhedrovirus.";
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Robertson A.P.S.;

"Genetic organization of Helicoverpa zea nu
the region of EcoRI U,D,L,A and Q.";

Submitted (JUN-2000) to the EMBL/GenBank/DI
EMBL; AF2725264; AG617374.1; -.

Hypothetical protein.

SEQUENCE 192 AA; 22747 MW; D5138789322:
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Peters S.,
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"Sequence analysis of the gp37 gene on
nucleocapsid nucleopolyhedrovirus.";
Zhongguo Bingduxue 15:35-42(2000).
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Heliocoverpa armigera nucleopolyhedrovirus G4
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Hypothetical 22.7 kDa protein.
Helicoverpa zea single nucleocapsid nucleopolyhedrovirus.
Viruses; dsDNA viruses, no RNA stage; Baculoviridae;
SEQUENCE FROM N.A. Chen X., IJkel W.F.,
                                                                                               "The sequence of the Helicoverpa armigera nucleopolyhedrovirus genome.";
J. Gen. Virol. 82:241-257(2001).
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"Nucleotide sequence and transcriptional analysis of a putative basic
DNA-binding protein of Helicoverpa armigera polyhedrovirus.";
Virus Genes 22:113-120(2001).
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Deng F., Chen
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"Sequence analysis of the iap3 gene on
nucleocapsid nucleopolyhedrovirus.";
Zhongguo Bingduxue 19:43-49(2000).
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Parkhill J., Dougan G., James K.D., Thomson N.R., Pickard D., Wain J. Churcher C., Mungall K.L., Bentley S.D., Holden M.T.G., Sebaihia M., Baker S., Basham D., Brooks K., Chillingworth T., Connerton P., Cronin A., Davis P., Davies R.M., Dowd L., White N., Farrar J., Feltwell T., Hamlin N., Haque A., Hien T.T., Holroyd S., Jagels K., Krogh A., Larsen T.S., Leather S., Moule S., O'Gaora P., Parry C., Quail M., Rutherford K., Simmonds M., Skelton J., Stevens K.,
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Submitted (JAN-2001) to the EMBL/GenBank/DDBJ databases.
EMBL; AF334030; AAL56117.1; -.
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Chen X., Zhang W.-J., Wong J., Chun G., Lu A., McCutchen B.F., Presnail J.K., Herrmann R., Dolan M., Tingey S., Hu Z.-H., Vlak "Genome sequence analysis of Helicoverpa zea single nucleocapsic
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EMBL, AE009597; AAL52796.1; -.
InterPro; IPR000005; HTHAFAC.
InterPro; IPR002818; ThiJ.
Pfam; PF00165; DJ-1 PfpI; 1.
Pfam; PF00165; HTH AFAC; 2.
SMART; SM00342; HTH AFAC; 1.
PROSITE; PS01124; HTH AFAC; 1.
                                                                                                                                                                            Q8G2L2
Q8G2L2;
01-MAR-2003
01-MAR-2003
01-MAR-2003
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Q8YFA7;
01-MAR-2002
01-MAR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.

STRAIN=16M / ATCC 23456 / Biotype 1;

MEDLINE=20020109; PubMed=11756688;

DelVecchio V.G., Kapatral V., Redkar R.J., Patra G., Muje Ivanova N., Anderson I., Bhattacharyya A., Lykidis A., ReJablonski L., Larsen N., D'Souza M., Bernal A., Mazur M., Selkov E., Elzer P.H., Hagius S., O'Callaghan D., Letesson Selkov R., Kyrpides N., Overbeck R.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-MAR-2002 (TrEMBLrel. 20, 01-MAR-2002 (TrEMBLrel. 20, 01-MAR-2003 (TrEMBLrel. 23, Transcriptional regulator, F
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EMBL; AL627282; CAD09351.1;
Hypothetical protein; Complo
SEQUENCE 322 AA; 34841 M
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NCBI_TaxID=29459;
                                         NCBI_TaxID=29461;
                                                                   Bacteria; Proteobacteria;
Brucellaceae; Brucella.
                                                                                                             Brucella suis.
                                                                                                                                         BR0307
                                                                                                                                                         Transcriptional
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    SEQUENCE FROM N.A
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rEMBLrel. 23,
l regulator, A
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34841 MW; 8E08C95F19237648 CRC64;
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71.48;
                                                                                        Alphaproteobacteria; Rhizobiales;
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AraC family.
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 40;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        99:443-448(2002).
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r M., Goltsman E.,
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Best Local S
Matches 5
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Waterston R.;
"Direct Submission.";
Submitted (JUL-2001) to the EN
Submitted (JUL-2001) to the EN
EMBL; AF125952; AAD14699.1;
Wormbep; C0184.7; CE20476.
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01-MAY-2000
01-MAY-2000
01-MAR-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Smith A., Wamsley P., Fronic "The sequence of C. elegans Submitted (FEB-1999) to the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE 338 AA;
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STRAIN=Bristol N2;
MEDLINE=99069613; PubMed=9851916;
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Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea;
Rhabditidae; Peloderinae; Caenorhabditis.
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Ol-MAY-2000 (TERMBLrel. 13, Last sequence update)
Ol-MAR-2003 (TERMBLrel. 23, Last annotation update)
Hypothetical 53.1 kDa protein.
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                                                                                                                                                                                            Hypothetical SEQUENCE 4'
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "Genome sequence of the nematode C. elegans: a platform for investigating biology. The C. elegans Sequencing Consortium."; Science 282:2012-2018(1998).
                                                                                                                                                                                                                                      PROSITE; PS50850; MFS; 1.
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llarity 83.3%;
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71.48;
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Pred. No. 34;
1; Mismatches
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M., Beanan M.J.,
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RESULT 12
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OS Ciona
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OC Phleb
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CO Phleb
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RP SEQUE
RA Satou
RT Schon
RL Subat,
DR EMBL;
DR Pfam;
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Q95YK5;
01-DEC-2001
01-DEC-2001
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01-DEC-2001 (TrEMBLrel. 19, Las)
01-MAR-2003 (TrEMBLrel. 23, Lass
Hypothetical protein Y19D10A.4.
Y19D10A.4.
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01-DEC-2001
01-DEC-2001
01-MAR-2003
                     EMBL; AB057740; BAB68349.1; --
InterPro; IPR007087; Znf_C2H2.
Pfam; PF00096; zf-C2H2; 4.
                                                                                     Satou Y., Imai K.S., Satoh N.;
"Ciona savignyi genes.";
Submitted (MAR-2001) to the EMBL/GenBank/DDBJ databases.
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                                                                                                                                                                                                                           Bukaryota; Metazoa; Chordata; Urochordata; Ascidiacea; Enterogona; Phlebobranchia; Cionidae; Ciona.
                                                                                                                                                                                                                                                                           Ciona savignyi.
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Submitted (JUN-2001) to the EMBL/GenBank/DDBJ databases.
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Eukaryota; Metazoa; Nem
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                                                                                                                                                            SEQUENCE FROM N.A.
                                                                                                                                                                                                      NCBI_TaxID=51511;
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PROSITE; PS50850; MFS; 1.
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InterPro; IPR007114; MFS.
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  PD000003; Znf_C2H2; 1
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EMBL/GenBank/DDBJ
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RESULT 14
Q8P659
ID Q8P65
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RX MEDLINE-22022145; PubMed=12074217;

RA da Silva A.C.R., Ferro J.A., Reinach F.C., Farah C.S., Furlan L.R.,

Quaggio R.B., Monteiro-Vitcrello C.B., Van Sluys M.A., Almeida N.F.,

RA Alves L.M.C., do Amaral A.M., Bertolini M.C., Camargo L.E.A.,

RA Cicarelli R.M.B., Coutinho L.L., Cursino-Santos J.R., El-Dorry H.,

RA Faria J.B., Ferreira A.J.S., Ferreira R.C.C., Ferro M.I.T.,

RA Paria J.B., Ferreira A.J.S., Ferreira R.C.C., Ferro M.I.T.,

RA Pormighieri E.F., Franco M.C., Greggio C.C., Gruber A.,

RA Katsuyama A.M., Kishi L.T., Leite R.P., Lemos E.G.M., Lemos M.V.F.,

RA Katsuyama A.M., Kishi L.T., Leite R.P., Lemos E.G.M., Lemos M.V.F.,

RA Martins E.C., Machado M.A., Madeira A.M.B.N., Martinez-Rossi N.M.,

RA Martins E.C., Meidanis J., Menck C.F.M., Miyaki C.Y., Moon D.H.,

RA Moreira L.M., Novo M.T.M., Okura V.K., Oliveira M.C., Oliveira V.R.,

RA Pereira H.A., Rossi A., Sena J.A.D., Silva C., de Souza R.F.,

RA Pereira H.A., Rossi A., Sena J.A.D., Silva C., de Souza R.F.,

RA Spinola L.A.F., Takita M.A., Tamura R.E., Teixeira E.C., Tezza R.I.D.,

RA Setubal J.C., Kitajima J.P.;

"Comparison of the genomes of two Xanthomonas pathogens with differing

RT Note partial control of the genomes of two Xanthomonas pathogens with differing

RI Nature 417.454-4770001
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01-OCT-2002
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PROSITE; PS00028; ZINC FINGER C2H2 1; 3.
PROSITE; PS50157; ZINC FINGER_C2H2_2; 4.
Metal-binding; Zinc; Zinc-finger.
SEQUENCE 500 AA; 55771 MW; 9A38B5370
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Bacteria; Proteobacteria; Gammaproteobacteria; Xanthomonadales;
Xanthomonadaceae; Xanthomonas.
                            Hypothetical XCC3115.
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Xanthomonas campestris (pv. campestris).
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                                                                                                                                                                                                                                                                                                                                                                            2 CYWKVCT 8
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310 AA; 33451 MW;
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Pred. No. 51;
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Pred. No.
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SEQUENCE FROM N.A.

SEQUENCE FROM N.A.

STRAIN-ATCC 33913 / NCPPB 528;

WEDINE-22022145; PubMed=12024217;

WA DIVERTINE-22022145; PubMed=12024217;

A Daily A.C.R., Ferro J.A., Reinach F.C., Farah C.S., Furlan L.R.,

A Daily A.C.R., Ferro J.A., Reinach F.C., Camargo L.E.A.,

A Louggio R.B., Monteiro-Vitorello C.B., Van Sluys M.A., Almeida N.F.,

A Louggio R.B., Monteiro-Vitorello C.B., Can Surgo L.E.A.,

A Cicarelli R.M.B., Coutinho L.L., Cursino-Santos J.R., El-Dorry H.,

Faria J.B., Ferreira A.J.S., Ferreira R.C.C., Ferro M.I.T.,

Faria J.B., Ferreira A.J.S., Ferreira R.C., Fruber A.,

Katsuyama A.M., Kishi L.T., Leite R.P., Lemos E.G.M., Lemos M.V.F.,

Locali E.C., Machado M.A., Madeira A.M.B., Martinez-Rossi N.M.,

A Martine E.C., Meddanis J., Menck C.F.M., Miyaki C.Y., Moon D.H.,

A Moreira L.M., Novo M.T.M., Okura V.K., Oliveira M.C., Oliveira V.R.,

Pereira H.A., Rossi A., Sena J.A.D., Silva C., de Souza R.F.,

A Mondade dos Santos M., Truffi D., Tsai S.M., White F.F.,

Trindade dos Santos M., Truffi D., Tsai S.M., White F.F.,

Tomparison of the Garces of the Santos M., White F.F.,
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Merkl R., Wiehlmann L., Fritz H.J., Tum
"Gene Islands Integrated into tRNA(Gly)
on a Pseudomonas aeruginosa Clone.",
J. Bacteriol. 184:6665-6680(2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Setubal J.C., Kitajima J.P. "Comparison of the genomes host specificities.";
                                                                                                                                                                                                                                                                                                                       Hypothetical protein SEQUENCE 316 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Bacteria; Proteobacteria;
Pseudomonadaceae; Pseudomo
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01-MAR-2003
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01-MAR-2003
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SEQUENCE 313 AA; 33935 MW; 3599D91640226CE8 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                      EMBL; AF440523; AAN62136.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE=22313472; PubMed=12426355;
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EMBL; AE012427; AAM42386.1;
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    59
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23,
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A Geneseq 19Jun03:*

1: /SIDS1/gcgdata/geneseq/geneseqp-emb1/AA1980.DAT:*
2: /SIDS1/gcgdata/geneseq/geneseqp-emb1/AA1981.DAT:*
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Copyright (c) 1993 - 2004 Compugen Ltd.
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result Query Query Description Des
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AAR41505
ID AAR4
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Matches 8
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Derivs of this sequence substd. on the N-terminal amino gp. by Derivs of this sequence substd. on the N-terminal amino gp. by N alpha-(alpha-glucosyl(1-4)deoxyfructosyl) or N alpha-(beta-deoxyfructosyl) are pref. for oral administration. The cpds are esp. used to prevent, inhibit or treat respiratory distress syndrome in children and adults, and to inhibit or treat ladmage caused by oxygen therapy. Opt. they are formulated with a glucocorticoid steroid. The y are also known to inhibit release of growth hormone, insulin, and glucagon, and to reduce gastric secret See also AARO517-80, AARO5182-88, AARO5191-95, AARO6530 and AARO51 (Updated on 10-MAR-2003 to add missing OS field.)
Hirt D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Somatostatin and its analogues or derivs. - used for protection against lung damage, esp. for respiratory distress syndrome or damage caused by oxygen therapy.
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gastro-intestinal o
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                                                                                              16-FEB-1993;
                                                                                                                      02-SEP-1993.
                                                                                                                                              WO9317037-A1
                                                                                                                                                                                  Modified-site
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                       SANDOZ ERFINDUNGEN VERW
SANDOZ LTD.
SANDOZ PATENT GMBH.
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8; Conserv
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(first entry)
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tion; acromegaly; diabetes mellitus; pituitary tumour;
inal disorder; headache; migraine.
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                                                   18-JAN-1991;
07-JUL-1989;
22-SEP-1989;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The sequences given in AAR41500-08 are somatostatin peptide analogues. These peptides are based on sequences from the tetradecapeptide somatostatin but have deletions, substitutions or inclusions when compared to the wild type sequence. These sequences may be used in a compound to inhibit growth hormone secretion and pancreatic and gastric secretion. This compound may be used in the treatment of acromegalty, complications of diabetes mellitus or gastro-intestinal disorders. These peptides may also be used to alleviate chronic, life-disrupting headache associated with pituitary tumours and also
                                                                                                                                                                                                                                                                                                                   enterocutaneous; pancreaticocutaneous fistula; irritable bowel syndrome; dumping syndrome; watery diarrhea syndrome; acute pancreatitis; gastroenteropathic endocrine tumor; glucagonoma; insulinoma; gastronoma; carcinoid tumour; gastrointestinal bleeding; anticancer; neuroregulator; growth hormone inhibitor.
                                                                                                                                                                                                                                                                                                                                                                                    Somatostatin; sustained-release; microparticle; octreotide; somatostatin analog; calcitonin; lypressin; growth hormone secretion; acromegaly; breast cancer; gastrointestinal disorder; peptic ulcer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAW97188 standard; peptide; 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     migraine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim
                                                                                                       06-JUN-1995;
                                                                                                                                02-MAR-1999
                                                                                                                                                                                                                            Misc-difference
                                                                                                                                                                                                                                                                                            Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                            Somatostatin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      05-MAY-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAW97188;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Treating acute migraine or cluster headache peptide, pref. admin. as nasal powder, provi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 1993-288354/36.
                                                                                                                                                            US5876761-A.
                                                                                                                                                                                                   Modified-site
            (NOVS ) NOVARTIS
                                                                                                                                                                                                                                                      Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (Updated on
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5; Page 24; 29pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 ACYWKVCT 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACYWKVCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           25-MAR-2003 to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                          analog
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                    91US-0643880.
89US-0377023.
89US-0411347.
95US-0470907.
                                                                                                       95US-0470907
                                                                                                                                                                                                                                                                 Location/Qualifiers
                                                                                                                                                                                                                                        /note=
                                                                                                                                                                                                              note=
                                                                                                                                                                                                                                                                                                                                                                                                                                          peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%;
                                                                                                                                                                                      "amidated residue"
                                                                                                                                                                                                                                       "3-(2-Naphthyl) attached to D-form residue"
                                                                                                                                                                                                              "D-form residue"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                          sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 54;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               providing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9.3e+05;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               with somatostatin
ing rapid relief
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     and gastrointestinal disorders such as peptic ulcer, enterocutaneous and pancreaticocutaneous fistula, irritable bowel syndrome, dumping syndrome, watery diarrhea syndrome, acute pancreatitis, gastroenteropathic endocrine tumors (e.g. vipomas, GRPomas, glucagonomas, insulinomas, gastronomas and carcinoid tumours) and gastrointestinal bleeding, and diabetic complications. The microparticles are used in anticancer treatment, neuroregulators, growth hormone inhibitors, central nervous system inhibitors, peripheral nervous system inhibitors, vascular smooth muscle inhibitors, insulin inhibitors and inhibitors, vascular smooth muscle inhibitors, insulin inhibitors and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        formulations of drugs, particularly water soluble peptides e.g. somatostatin or somatostatin analogs, such as octrectide, as well as calcitonin (e.g. salmon calcitonin) and lypressin. Microparticles produced are used in the long-term treatment of disorders associated with excess growth hormone secretion such as acromegaly, breast cancer with excess growth hormone secretion such as acromegaly, breast cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Production of microparticles comprising octreotide - by mixing octreotide solution in buffer and polylactide:coglycolide solution in methylene chloride, used to treat breast cancer or acromegaly
             28-FEB-2000; 2000EP-0200707
                                               04-OCT-2000.
                                                                              EP1040837-A2
                                                                                                                             Misc-difference
                                                                                                                                                               Misc-difference
                                                                                                                                                                              Disulfide-bond
                                                                                                                                                                                                                 Modified-site
                                                                                                                                                                                                                                                                Synthetic
                                                                                                                                                                                                                                                                                                  diabetic retinopathy
                                                                                                                                                                                                                                                                                                              Somatostatin analogue; somatostatin receptor; eye; growth factor; choroidal neovascularisation related disorder; ocular neovascularisation; CNV related disease; exudative age-related macular degeneration;
                                                                                                                                                                                                                                                                                                                                                                                Amino acid sequence of somatostatin analogue lanreotide.
                                                                                                                                                                                                                                                                                                                                                                                                                     08-FEB-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               octreotide. The microparticles are used for sustained-release formulations of drugs, particularly water soluble peptides e.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present sequence represents a somatostatin analog that can be in the production of sustained-release microparticles comprising
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; Column 5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Bodmer D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAB19027 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pearson JE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity
nes 8; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1999-189594/16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACYWKVCT 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Fong
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       100.0%; ilarity 100.0%; Conservative 0,
                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
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                                                                                                                                                                              2..7
                                                                                                                                                                                                                     Location/Qualifiers
                                                                                                               /note= "amidated residue"
                                                                                                                                                                                              note= "3-(2-(naphthyl) attached to
                                                                                                                                               note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Kissel T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9pp; English.
                                                                                                                                                 ð
                                                                                                                                             form residue
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 54; DB 20;
Pred. No. 9.3e+05;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Maulding HV,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Nagele 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
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                                                                                                                                                                                                 form residue"
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RESULT 5
AAE19365
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            PACE X PACE AND A PACE
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Best Local Similarity
Matches 8; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Somatostatin analogue; ocular disorder; diabetic macular oedema; retinitis pigmentosa; optic nerve disease; vision loss; glaucoma; age related macular degeneration.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     neovascularisation (CNV) related disorder. The control of ocular neovascularisation is regulated by a balance between stimulating and inhibiting growth factors. The medicine is useful for the treatment of CNV related diseases, especially exudative age-related macular degeneration. The somatostatin receptor binding compounds stop leakage in existing and new ocular vessels and inhibit neovascularisation in age-related macular degeneration and diabetic retinopathy.
                                                                                                                                                                                                                                                                                                                                                                Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                           Misc-difference
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disulfide-bond
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Somatostatin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            31-MAY-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAE19365;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAE19365 standard; peptide; 8 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      method of the invention. The specification describes the use or a compound that binds to at least one somatostatin receptor in the eye, the manufacture of a medicine for the treatment of a choroidal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            disorder,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Use of somatostatin, somatostatin analogs or somatostatin receptor binding compounds for treating choroidal neovascularization-related
                                                                                                  27-JUL-2000; 2000EP-0116068
                                                                                                                                                                                                                   07-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAB19022-32 represent somatostatin analogues. They are used in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; Page 5; 16pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2000-629601/61.
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                                                                                                                                                      25-JUL-2001; 2001WO-EP08620
                                                                                                                                                                                                                                                                          WO200209739-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Modified-site
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NOVARTIS AG.
NOVARTIS-ERFINDUNGEN VERW GES MBH.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACYWKVCT 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         especially age-related macular degeneration and diabetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            analogue peptide #6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            99US-0258240
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                                                                                                                                                                                                                                                                                                                                     /note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                            'note= "D-form residue"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  'note= "3-(2-Naphthyl)-Ala; D-form residue"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           100.0%;
                                                                                                                                                                                                                                                                                                                                     "C-terminal amide"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The specification describes the use of a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 54; DB 21;
Pred. No. 9.3e+05;
0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Baarsma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          S
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RESULT 6
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Best Local S
Matches 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to a method of treating ocular disorder. The method involves administering a somatostatin analogue to an individual. The method is used to treat ocular disorders particularly vision loss due to progressive retinal and/or optic nerve disease such as glaucoma, retinitis pigmentosa, diabetic macular oedema and age related macular degeneration. The present sequence is somatostatin analogue peptide
Claim 2; Page 59; 63pp; English
                            Multi-tyrosinated somatostatin analogues treatment of diseases related to altered
                                                                                                                                                                                                                                             Modified-site
                                                                                                                                                                                                                                                                                                                                                        Somatostatin peptide analog
                                                                                                                                                                                                                                                                                                                                                                                                                   AAW48638 standard; peptide; 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 4f;
                                                                                                   (CHIL-)
                                                                                                                                                                                                                                                                                              Homo
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                                                                                                                                                                                                                                                                                                                                                                                                AAW48638;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Fsadni M,
                                                                               Coy DH,
                                                                                                                                                    05-JUN-1995;
                                                                                                                                                                       03-JUN-1996;
                                                                                                                                                                                            12-DEC-1996
                                                                                                                                                                                                               WO9639161-A1.
                                                                                                                                                                                                                                                                 Misc-difference
                                                                                                                                                                                                                                                                                                                           cancer; halogen.
                                                                                                                                                                                                                                                                                                                                     Somatostatin;
                                                           WPI; 1997-042842/04.
                                                                                                                                                                                                                                                                                             sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       known as lanreotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2002-227075/28
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                                                                                                  CHILDRENS HOSPITAL INC.
TULAME EDUCATIONAL FUND.
UNIV LOUISIANA STATE MEDICAL CENT FOUND.
UNIV OHIO STATE RES FOUND.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                              Murphy WA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACYWKVCT 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACYWKVCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 of ocular disorder e.g. glaucoma using a somatostatin analog
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ₩увв
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                             (first
                                                                                                                                                                                                                                                                                                                                    acromegaly; radiolocalisation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10; 20pp;
                                                                                                                                                    95US-0462223.
                                                                                                                                                                       96WO-US08437
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          7.
                                                                                                                                                                                                                                   /note= "C-terminal amide"
                                                                                                                                                                                                                                                      /note= "D-form residue"
                                                                                                                                                                                                                                                                         Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                            entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100.0%;
                                                                               O'Dorisio MS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 54;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                               O'Dorisio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9.3e+05;
                            - useful for diagnosis somatostatin receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 23;
                                                                                                                                                                                                                                                                                                                                    blood-brain
                                                                               Ϋ́
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                              Woltering
                                                                                                                                                                                                                                                                                                                                     barrier;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
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Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      is involved. When halogenated, these analogues are found to bind somatostatin receptors with such high affinity that binding is nearly irreversible under physiological conditions. Therefore, by using radioactive halogenated analogues, the invention claims for improved sensitivity of radiolocalisation of the receptors. The multi-tyrosinated somatostatin analogues (AAM48641-W48646) bind to somatostatin receptors with practically the same affinity as native somatostative to conventional somatostatin analogues, are resistant to vivo relative to conventional somatostatin analogues, are resistant to enzymatic degradation and have increased blood-brain barrier
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention provides for somatostatin analogues such as the present one. These somatostatin analogues are claimed to be useful for treating disease associated with increased production of factors which can be
                                                                                                             Modifying and attaching therapeutic peptides to albumin prevents peptidase degradation, useful for increasing length of in vivo a
                                                                                                                                                                                                                                                          17-MAY-1999;
10-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens.
Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     regulated by somatostatin, e.g. acromegaly. Also when radioactively labelled, the analogues are claimed to be useful for diagnosing cancer in vitro or in situ where aberrant expression of somatostatin receptors is involved. When halogenated, these analogues are found to bind
                                                                     Disclosure; Page 407;
                                                                                                                                                        WPI; 2001-112059/12.
                                                                                                                                                                                     Bridon DP,
                                                                                                                                                                                                                                                                                                     17-MAY-2000; 2000WO-US13576
                                                                                                                                                                                                                                                                                                                                23-NOV-2000
                                                                                                                                                                                                                                                                                                                                                            WO200069900-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                              Protection; endogenous therapeutic peptide; peptidase; conjugation; blood component; modification; succinimidyl; maleimido group; amino
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Angiotensin peptide SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     22-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAB91464;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAB91464 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           penetration.
                                                                                                                                                                                                                                               15-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                               hydroxyl; thiol;
                                                                                                                                                                                                                  (CONJ-) CONJUCHEM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 CYWKVCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2 CYWKVCT 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       7; . Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              7 AA;
                                                                                                                                                                                     Ezrin AM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                          99US-0134406.
99US-0153406.
                                                                                                                                                                                                                                            99US-0153406
99US-0159783
                                                                                                                                                                                                                                                                                                                                                                                                                               hormone; growth factor; neurotransmitter.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     92.6%;
                                                                    733pp;
                                                                                                                                                                                     Milner
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NO:640.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 50; DB; Pred. No. 9.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         <u>,</u>
                                                                    English.
                                                                                                                                                                                     g,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            B
                                                                                                                                                                                     Holmes DL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 18; 1
9.3e+05;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Also when radioactively
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0
                                                                                                                                                                                     Thibaudeau
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      found to bind
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        are resistant to
                                                                                                                                                                                                                                                                                                                                                                                                                                              group; amino
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0
                                                                                                                  activity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
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The present invention describes a modified therapeutic peptide comprising a therapeutically active amino acid region (III) and reactive group (II) (e.g. succinimidyl and maleimido groups at less therapeutically active amino acid region (IV), which covaless the statement of the s

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RESULT 8
AAE17083
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                peptidase stabilised therapeutic peptide components to form a peptidase stabilised therapeutic composed of 3-50 amino acids. (I) are useful for modifying therapeutic peptides e.g. hormones, growth factors and neurotransmitters, to protect them from peptidase activity in vivo for the treatment of various disorders. Endogenous therapeutic peptides are not suitable as drug candidates as they require frequent administration due to rapid degradation by peptidases in the body. Modifying and attaching therapeutic peptides to albumin prevents or reduces the action of peptidases to increase length of activity (half life) and specificity as bonding to large molecules decreases intracellular uptake and interference with physiological processes. AAB90829 to AAB2441 represent peptides which can be used in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        depression; mental retardation; neurodegenerative disease; antibacterial; Alzheimer's disease; dementia; ischaemia; Parkinson's disease; antiviral; Huntington's disease; antiviral; antifungal; immunosuppressive; cytostatic; vulnerary; analgesic; anorectic; anabolic; diuretic; cardiant; nootropic; antiemetic; vasotropic; diabetes; cancer; tranquillizer; neuroleptic;
                                                                                        20-JUN-2000; 2000US-212913P.
11-JUL-2000; 2000US-217494P.
26-JAN-2001; 2001EP-08770015.
12-FEB-2001; 2001EP-0870024.
                                                                                                                                                                                                                                                                                                                     Modified-site
                                                                                                                                                                                                                                                                                                                                                         Misc-difference
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           anorexia; tumour; migraine; acute heart failure; ulcer; antiinflammatory; stroke; hypertension; neuronal disorder; myocardial infarction psychotic: depression; mental refardation.
                 Lannoy V,
                                                                                                                                                                                                                                                                WO200198330-A2
                                                                                                                                                                                                                                                                                                                                                                                              Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; G-protein coupled receptor; GPCRx11; cerebroprotective; vomiting; receptor-mediated disorder; therapy; urinary retention; allergy; obesity;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Angiopeptin peptide used in functional assay for human GPCRx11 sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   18-APR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAE17083;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAE17083 standard; peptide; 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                     20-JUN-2001; 2001WO-BE00104
                                                                                                                                                                                                                                                                                                                                                                                                              Disulfide-bond
                                                     (EURO-) EUROSCREEN SA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2 CYWKVCT 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity
7; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CYMKVCT 7
               Brezillon S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AA;
                                                                                                                                                                                                                                                                                                                         /note= "D-form residue"
7
                                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                          /note= "Cys is modified with D-NaI"
                                                                                                                                                                                                                                                                                                 /note= "C-terminal amide"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             92.6%; Score 50; DB 22; 100.0%; Pred. No. 9.3e+05; Live 0; Mismatches 0;
               Detheux M,
               Parmentier
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
               Govarts
               Ω
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0;
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urinary retention, osteoporosis, angina pectoris, atherosclerosis, restenosis, diseases involving excessive or reduced proliferation or loss of smooth muscle cells, aneurysm, stroke, ischaemia, ulcers, allergies, benign prostatic hypertrophy, migraine, vomiting; blood circulating affections including acute heart failure, hypotension, hypertension and myocardial infarction psychotic; neuronal disorders such as anxiety, schizophrenia, maniac depression, depression, delirium, dementia, severe mental retardation; degenerative diseases, neurodegenerative diseases such as Alzheimer's disease, Parkinson's disease; and dyskinesias e.g. Huntington's disease or Gilles de la Tourette's syndrome and other related diseases. The present sequence is angiopeptin peptide used in
                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention relates to a G-protein coupled receptor (GPCR) and nucleotide encoding it. GPCR are useful in the manufacture of a medicament for the prevention and/or transit of receptor-mediated disorders e.g. viral infections, virus and bacterial diseases diseases and disorders involving disturbances of cell migration, diseases or perturbations of immune system including cancers, development of tumours
                                                                                                                                                                                                                                                                                                                                                                            and tumour metastasis, inflammatory and neoplastic processes; bacterial and fungal infections, in wound and bone healing, dysfunction of regulatory growth functions; pains, diabetes, obesity, anorexia, buliming
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New G-protein coupled receptor, useful in the manufacture of medicaments for treating receptor mediated disorders e.g. acute heart failure and Alzheimer's disease -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 1; Page 15; 46pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2002-130789/17.
                                                      for human GPCRx11 sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        of tumours
                                                                                                                                                                                                                                                                                                                                                                                  bulimia,
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Matches
                                                                                 Query Match
Best Local
AAP61464 standard;
                                                          2 CYWKVCT 8
                                                                          Similarity
7; Conser
                                         CYWKVCT 7
                                                                           Conservative
Protein;
                                                                      92.6%; Sc.
100.0%; Pr
                                                                         Score 50; DB ; Pred. No. 9.3 0; Mismatches
œ
                                                                                 DB 23; I
9.3e+05;
                                                                          0
                                                                                         Length 7;
                                                                          Indels
                                                                         0,
                                                                         Gaps
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Sequence

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AAP61464
                                                                                                                                                                                                                      RESULT 9
     28-MAR-1986;
25-APR-1985;
                                                                          Disulfide-bond
Modified-site
                                                                                                                     Synthetic
                                                                                                                                   Cholecystokinin
                                                                                                                                        Growth hormone; prolactin; insulin; glucagon;
                                                                                                                                                     Cyclic octapeptide somatostatin analogue
                                                                                                                                                                     25-MAR-2003
27-OCT-1991
                                                                                                                                                                                           AAP61464;
                          15-APR-1986;
                                         26-NOV-1986
                                                      EP203031-A.
                                                                                                Modified-site
                                                                                                                                                                    (updated)
(first entry)
     86US-0843539
85US-0727105
                          86EP-0810174
                                                                                /label= D-Phe
2..7
                                                                                                     Location/Qualifiers
                                                                   /label= D-Trp
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gastrin; secretin;

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RESULT 10
AAP71378
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local
                                                         17-JUN-1986;
12-SEP-1985;
22-JUN-1988;
17-FEB-1989;
                   çoy
                                                                                                                                                                                                                                                                          Growth hormone secretion inhibitor; cancer therapy; Alzheimer's disease; diabetes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            They also diminish gastrin stimulated secretion of gastric acid, and may be used in treatment of diabetic retinopathy, diabetes, ulcers, acute pancreatitis and agromegaly. The analogues may also used in treating prostatic adeno-carcinomas, mammary carcinomas, insulinomas, gastrinomas and growth hormone and insulin dependent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Somatostatin analogues inhibit the release of growth hormone, prolactin, insulin, glucagon, gastrin, secretin and choleocystokinin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New cyclic octa:peptide somatostatin analogues - linear intermediates.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 1986-313466/48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Schally AV,
WPI; 1987-074173/11
                                                                                                                                                                                  Misc-difference
                                                                                                                                                                                                     Misc-difference
                                                                                                                                                                                                                                                       Synthetic
                                                                                                                                                                                                                                                                                                        Sequence of
                                                                                                                                                                                                                                                                                                                             03-MAY-1991
                                                                                                                                                                                                                                                                                                                                       25-MAR-2003
03-OCT-2002
                                                                                                                                                                                                                                                                                                                                                                    AAP71378;
                                                                                                                                                                                                                                                                                                                                                                                      AAP71378 standard; peptide; 8
                                                                                                                                                    EP214872-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (TULA)
                                                                                                            12-SEP-1986;
                                                                                                                                 18-MAR-1987.
                                                                                                                                                                                                                         Misc-difference
                                     (TULA ) TULANE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (Updated on 25-MAR-2003 to correct PA field.)
                   DH,
                                                                                                                                                                                                                                                                                                                                                                                                                                          N
                                                                                                                                                                                                                                                                                                                                                                                                                                                             N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity 7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TULANE EDUCATIONAL FUND
                  Murphy WA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                         CYWKVCT 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Page 31; 33pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                          CYWKVCT 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8 AA;
                                                                                                                                                                                                                                                                                                        somatostatin analogue.
                                                                                                                                                                                                                                                                                                                           (updated)
(updated)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cai
                                                          86US-0875266.
85US-0775488.
88US-0209883.
89US-0312138.
                                      EDUCATIONAL FUND
                                                                                                            86EP-0307044
                                                                                                                                                                                                                                   Location/Qualifiers
                                                                                                                                                                                          /label= D-Trp
                                                                                                                                                                                                               /label= D-beta-Nal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RZ;
                                                                                                                                                                       /label= Thr-NH2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          92.6%; Score 50; 100.0%; Pred. No.
                   Heman ML;
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                                       GND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 7; L
9.3e+05;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              and reduced
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
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RESULT 11
AAP71379
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                                                                                            25-MAR-2003
03-OCT-2002
03-MAY-1991
                                                                                                                   17-JUN-1986;
12-SEP-1985;
22-JUN-1988;
      Somatostatin analogue octa:peptide(s) with enhanced activity are useful in the redn. of growth hormone, insulin glucagon, pancreatic exocrine secretion, and have anticancer activity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Somatostatin analogue octa:peptide(s) with enhanced activity are useful in the redn. of growth hormone, insulin glucagon, pancreatic exocrine secretion, and have anticancer activity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; p9; 10pp; English.
                                                                                                                                                                                                     EP214872-A.
                                                                                                                                                                                                                                    Misc-difference
                                                                                                                                                                                                                                                       Misc-difference
                                                                                                                                                                                                                                                                                                       Synthetic
                                                                                                                                                                                                                                                                                                                            Alzheimer's
                                                                                                                                                                                                                                                                                                                                     Growth hormone secretion inhibitor;
                                                                                                                                                                                                                                                                                                                                                        Sequence of
                                                                                                                                                                                                                                                                                                                                                                                                                      AAP71379;
                                                                                                                                                                                                                                                                                                                                                                                                                                         AAP71379 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  because of their greater potency, in smaller dosages. Dosage
0.01-1000 mcg./kg./day pref. 0.1-100 mcg./kg./day to mammal e
                                                                                                                                                              12-SEP-1986;
                                                                                                                                                                                  18-MAR-1987.
                                                                                                                                                                                                                                                                           Misc-difference
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        somatostatin.
                                                                                        (TULA )
                                                                                                            17-FEB-1989
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (Updated on 03-OCT-2002 to add missing OS field.) (Updated on 25-MAR-2003 to correct PA field.) (Updated on 25-MAR-2003 to correct PI field.)
                                                                   DH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        contg. the claimed peptides can be used instead of statin. They are administered in somatostatin dose
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2 CYWKVCT
                                                                                        TULANE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity 7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CYWKVCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8 AA;
                                                                                                                                                                                                                                                                                                                            disease; diabetes.
                                                                                                                                                                                                                                                                                                                                                         somatostatin analogue.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                           (updated)
(updated)
(first en
                                                                                                          86US-0875266.
85US-0775488.
88US-0209883.
89US-0312138.
                                                                 WA,
                                                                                        EDUCATIONAL FUND
                                                                                                                                                              86EP-0307044.
                                                                                                                                                                                                                                                                                  Location/Qualifiers
                                                                                                                                                                                                                          /label= Thr-NH2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
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                                                                                                                                                                                                                                                               /label=
                                                                                                                                                                                                                                            'label=
                                                                                                                                                                                                                                                                                                                                                                                                                                        peptide; 8 AA.
                                                                                                                                                                                                                                                                                                                                                                            entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          92.6%;
                                                                    Heman
                                                                                                                                                                                                                                           D-Trp
                                                                                                                                                                                                                                                                pentafluoro-D-Phe
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          in somatostatin dosages
                                                                                                                                                                                                                                                                                                                                      cancer therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 8; Le
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length
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                             activity
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RESULT 12
AAR07022
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Best Local S
Matches 7
                   Analogues to somatostatin, useful for reducing or inhibiting release of antagonising growth hormone, insulin, glucagon or pancreatic exocrine solution. The peptides can treat diabetes related retinopaticirnhosis, hepatitis, Alzheimer's disease, cancers etc.
                                                                                                New octa:peptide somatostatin analogues diabetes, liver disease, growth hormone
                                                                                                                                                                                                                                                                                                                                                                        Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                      Growth hormone
                                                                                                                                                                                                                                                                                                                                                                                                                         Octapeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                              21-JAN-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAR07022 standard; protein; 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cyds. contg. the claimed peptides can be used instead of somatostatin. They are administered in somatostatin dosages or because of their greater potency, in smaller dosages. Dosage is 0.01-1000 mcg./kg./day pref. 0.1-100 mcg./kg./day to mammal eg
Sequence
                                                                     Claim 5;
                                                                                          alzheimers disease etc.
                                                                                                                                WPI; 1990-292105/39.
                                                                                                                                                     Eck CR,
                                                                                                                                                                                            15-MAR-1989;
                                                                                                                                                                                                                15-MAR-1990;
                                                                                                                                                                                                                                     26-SEP-1990
                                                                                                                                                                                                                                                        EP389180-A.
                                                                                                                                                                                                                                                                                        Modified-site
                                                                                                                                                                                                                                                                                                                                                                                           Cirrhosis; hepatitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure;
                                                                                                                                                                                                                                                                                                           Modified-site
                                                                                                                                                                                                                                                                                                                                          Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             human.
                                                                                                                                                                         (BIOM-)
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                                                                                                                                                                         BIOMEASURE INC.
                                                                                                                                                     Moreau S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity 7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           on 03-OCT-2002 to
on 25-MAR-2003 to
on 25-MAR-2003 to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CYWKVCT 8
                                                                     Page 5; 8pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8 AA;
œ
                                                                                                                                                                                                                                                                                                                                                                                                                        somatostatin analogue.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                    dependent cancer; diabetes; Alzheimers
                                                                                                                                                                                            89US-0323777.
                                                                                                                                                                                                                 90EP-0302760
                                                                                                                                                                                                                                                                                                                                                 Location/Qualifiers
                                                                                                                                                                                                                                                                             /label= Dextrorotatory
                                                                                                                                                                                                                                                                                                  'label=
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                                                                                                                                                                                                                                                                                                                                                                                          insulin; glucagon.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       English.
                                                                                                                                                                                                                                                                                                                      "Pentafluoro-D-Phe"
                                                                                                                                                                                                                                                                                                                               Dextrorotatory
                                                                                                                                                                                                                                                                                               Iodinated phenyl ring
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correct PA field.)
correct PI field.)
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3. 9.3e+05;
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    useful for treating dependent cancer,

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                            retinopathy,
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RESULT 13
AAR07021
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Best Local S
Matches 7
                                             Query Match
Best Local
                                      Matches
                                                                         Sequence
                                                                                         Analogues to somatostatin, useful for reducing or inhibiting release of antagonising growth hormone, insulin, glucagon or pancreatic exocrine solution. The peptides can treat diabetes related retinopaticirrhosis, hepatitis, Alzheimer's disease, cancers etc.
                                                                                                                                                                  New octa; peptide somatostatin analogues - useful for treating diabetes, liver disease, growth hormone dependent cancer,
                                                                                                                                                                                                                                                                                                                                                                                                                     Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                      Growth hormone dependent cancer; diabetes; Alzheimers disease; Cirrhosis; hepatitis; insulin; glucagon.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Octapeptide somatostatin analogue.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAR07021 standard;
                                                                                                                                          Claim 5;
                                                                                                                                                           alzheimers disease etc.
                                                                                                                                                                                                 WPI; 1990-292105/39.
                                                                                                                                                                                                                   Eck CR,
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Modified-site
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2 CYWKVCT
                                              Similarity
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                                      Conservative
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                                                                                                                                                                                                                                                                                                                                                                      /label= OTHER, Dextrorotatory
/note= "D-beta-Nal"
                                                                                                                                                                                                                                                                                                                                                    'label= Iodinated phenyl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          protein;
                                 92.6%; 5c.
100.0%; Pr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      92.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            %; Score 50; DB
%; Pred. No. 9.3
0; Mismatches
                                    Score 50; DB; Pred. No. 9.3
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                                             DB 11; ; 9.3e+05;
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. 9.3e+05;
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                                     Indels
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                                                                                                     retinopathy,
                                     0;
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                                    Gaps
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RESULT 14
AAR07024
ID AAR07
XX

AAR07024 standard;

protein;

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AAR07024;

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AAR10504
ID AAR3
XX AAR1
AC AAR1
DT 25-1
DT 10-1
DT 09-.
XX Pam
XX Sug
KW Sug
KW Sug
KW Sug
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XX Uni
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                                                                                                                                                                           RESULT 15
                                                                                                                                                                                                                                                    Query Match
Best Local S
Matches 7
                                                                                      25-MAR-2003
10-MAR-2003
09-APR-1991
                                                                                                                                                                                                                                                                                                                                                                                              New octa:peptide somatostatin analogues - useful for treating diabetes, liver disease, growth hormone dependent cancer, alzheimers disease etc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Growth hormone dependent cancer; diabetes; Alzheimers Cirrhosis; hepatitis; insulin; glucagon.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Octapeptide
                                                                                                                                                                                                                                                                                                                  Analogues to somatostatin, useful for reducing or inhibiting release of antagonising growth hormone, insulin, glucagon or pancreatic exocrine solution. The peptides can treat diabetes related retinopathy, cirrhosis, hepatitis, Alzheimer's disease, cancers etc.
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Modified-site
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                                                                                                                                                                                                                                                                                                Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eck CR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         15-MAR-1989;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   26-SEP-1990
                                Sustained release peptide compsn.; lactic acid; glycolic acid; somatostatin; luteinising hormone releasing hormone.
                                                                                                                                 AAR10504;
                                                                                                                                                      AAR10504 standard; Protein; 8 AA.
                                                                                                                                                                                                                                                                                                                                                                         Claim 5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              15-MAR-1990;
            Unidentified
                                                               Pamoate of somatostatin octapeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (BIOM-) BIOMEASURE INC.
                                                                                                                                                                                                            N
                                                                                                                                                                                                                                                   Similarity
7; Conserv
                                                                                                                                                                                                                                2 CYWKVCT 8
                                                                                                                                                                                                         CYWKVCT 8
                                                                                                                                                                                                                                                                                                                                                                        Page 5; 8pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Moreau S;
                                                                                                                                                                                                                                                                                                8 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 somatostatin analogue.
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                                                                                     (updated)
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/note= "N-Ac-D-beta-Nal"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  'label= Iodinated phenyl ring
                                                                                                                                                                                                                                                               92.6%;
                                                                                                                                                                                                                                                    Score 50; DB; Pred. No. 9.3
                                                                                                                                                                                                                                                      0;
                                                                                                                                                                                                                                                    DB 11; I
. 9.3e+05;
ches 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             disease;
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                                                           Query Match
Best Local S
Matches 7
                                                                                                                                                        This peptide is used as the active substance in a pharmaceutical compsn. for sustained release of somatostatin. It is mixed with lactic acid/glycolic acid co-polymer. All components are in the form of microparticles and an injectable soln. is obtd. See also AAR10501-03 and AAR10505-09.

(Updated on 10-MAR-2003 to add missing OS field.)
                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                        Sustained release pharmaceutical peptide compsn. prepn. - involves preheating and compressing mixt. of lactic and glycolic acid copolymers with active substance pamoate, etc.
                                                                                                                                                                                                                                                                                                                                                                                                                            Orsolini
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          30-JAN-1991.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Key
                                                                                                                                                                                                                                                                                          Claim 9; page 12; 14pp; English.
                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1991-031530/05.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           28-JUL-1989;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          17-JUL-1990;
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2..7
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8
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Search completed: February 11, Job time: 42 secs 2004, 06:31:48

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Maximum Match 10
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                                                                                                                                                                                                                                                                                                                                                                                                          Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      seq length: 0
seq length: 2000000000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB_pep:*
/cgn2_6/ptodata/1/pubpaa/US08_REW_PUB_pep:*
/cgn2_6/ptodata/1/pubpaa/US08_REW_PUB_pep:*
/cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
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/cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep:*
/cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep:*
/cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep:*
/cgn2_6/ptodata/1/pubpaa/US09_REW_PUB_pep:*
/cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*
/cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*
/cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*
/cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*
/cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*
/cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*
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   US-10-036-869-13

US-10-300-083-3

US-10-058-053A-263

US-10-058-053A-38

US-10-058-053A-21

US-10-058-053A-21

US-10-239-701-11

US-09-852-870A-11

US-09-852-870A-11

US-09-852-870A-21

US-10-058-053A-234

US-10-058-053A-234

US-10-058-053A-264

US-10-058-053A-264

US-10-058-053A-264

US-10-058-053A-264

US-10-058-053A-264

US-10-058-053A-264

US-10-058-053A-264
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Sequence 13, Appl Sequence 15, Appl Sequence 15, Appl Sequence 263, App Sequence 212, App Sequence 212, App Sequence 11, Appl Sequence 11, Appl Sequence 234, App Sequence 234, App Sequence 234, App Sequence 280, App Sequence 116, Appl Sequence 116, App
                                                                                                                                                                                                                                                                                                            Description
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ALIGNMENTS

RESULT 1 US-10-036-869-13

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Sequence 13, Application US/10036869
Sequence 13, Application US/10036869
Publication No. US20020151516A1
GENERAL INFORMATION:
APPLICANT: Mixson, James A
TITLE OF INVENTION: CARRIER: DNA COMPLEXES CONTAINING DNA
ENCODING ANTI-ANGIOGENIC PEPTIDES AND THEIR USE IN GENE
TELEPHONE: (302) 658-91
TELEPAX: (302) 658-613
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                       COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION NUMBER: US/10/036,869
PILING DATE: 29-No. US2002015156A1-2001
CLASSIFICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: US/08/985,526
FILING DATE: 4Unknown
APPLICATION NUMBER: US/08/985,526
FILING DATE: 4Unknown
APPLICATION NUMBER: US/08/985,526
FILING DATE: 16-JUL-1996
ATTORNEY APPLICATION NUMBER: US/08/608,845
FILING DATE: 16-JUL-1996
                                                                                                          NAME: McMorrow Jr., Robert
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES: 43
CORRESPONDENCE ADDRESS:
                                                                                                                                                                        ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STATE: Delaware
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ZIP: 19899
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COUNTRY: U.S.A.
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1220 Market Street, P.O. Box 2207
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                                                                                        658-9141
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TOPOLOGY: linear
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MOLECULE TYPE: peptide
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SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-10-300-083-3
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US-10-036-869-15
                RESULT 3
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Best Local S
Matches 6
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Publication No. US20030153502A1
GENERAL INFORMATION:
APPLICANT: REGENTS OF THE UNIVERSITY OF MINNESOTA
TITLE OF INVENTION: SYNTHETIC APPROACH TO DESIGNED CHEMICAL
                                                                                                                                                                           Query Match
Best Local S
                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                               TELEFAX: 612-305-1228
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/300,083
FILING DATE: 20-No. US20030153502A1-2002
CLASSIFICATION: <Unknown
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE/DOCKET NUMBER: 110.00330220
TELECOMMUNICATION INFORMATION:
TELEPHONE: 612-305-1225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATTORNEY/AGENT INFORMATION:
NAME: MCCORMACK, MYRA M.
REGISTRATION NUMBER: 36,602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS:
ADDRESSEE: MUETING, RAASCH, GEBHARDT & SCHWAPPACH, P.A.
STREET: 119 No. US20030153502A1th Fourth Street, Suite 203
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES: 38
                                                                               13 CYWKVC 18
                                                                                                            2 CYWKVC 7
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6; Conserva
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH: 9 amino acids
TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                       TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: US/09/194,296
FILING DATE: 15-Oct-1999
APPLICATION NUMBER: US 08/653,632
FILING DATE: 24-MAY-1996
                                                                                                                                                                                                                                                                                                                   STRANDEDNESS: single
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                                                                                                                                                            Conservative
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                                                                                                                                                      83.3%; Score 45; DB 12; Length 33; 100.0%; Pred. No. 4.3; tive 0; Mismatches 0; Indels
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SOFTWARE: PatentIn version 3.0 SEQ ID NO 263 LENGTH: 27
                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                  Sequence 263, Application US/10058053A
Publication No. US20030170222A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local
                                                                                                                                                                                             APPLICANT: Cognetix, Inc.
APPLICANT: Jones, Robert M.
APPLICANT: Garrett, James E.
APPLICANT: Watkins, Maren
APPLICANT: Olivera, Baldomero M.
TITLE OF INVENTION: B-Superfamily Conotoxins
                                                               PRIOR APPLICATION NUMBER: US 60/264323
PRIOR FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 340
                                                                                                                                     FILE REFERENCE: 2314-248
CURRENT APPLICATION NUMBER: US/10/058,053A
CURRENT FILING DATE: 2002-07-05
                                                                                                                                                                                                                                                                                                                   APPLICANT: University of Utah Research Foundation APPLICANT: Cognetix, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEPHONE: (302) 658-91-
TELEPAX: (302) 658-5613
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 34 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/985,526
PILING DATE: <UNKnown>
APPLICATION NUMBER: US 08/608,845
PILING DATE: 16-JUL-1996
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOPTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Mixson, James A
TITLE OF INVENTION: CARRIER: DNA COMPLEXES CONTAINING DNA
ENCODING ANTI-ANGIOGENIC PEPTIDES AND THEIR USE IN GENE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELECOMMUNICATION INFORMATION: TELEPHONE: (302) 658-9141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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CORRESPONDENCE ADDRESS:
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FILING DATE: 29-No. US20020151516A1-2001
CLASSIFICATION: <UNKNOWN>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STREET: 1220 Market Street, P.O. Box 2207 CITY: Wilmington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME: McMorrow Jr., Robert G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STATE: Delaware
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY: U.S.A.
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; NUMBER OF SEQ ID NOS: 340
; SOFTWARE: PatentIn version
; SEQ ID NO 212
; LENGTH: 78
; TYPE: PRT
; ORGANISM: Comus sulcatus
US-10-058-053A-212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; ORGANISM: Conus sulcatus US-10-058-053A-263
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Best Local Similarity
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Best Local Similarity 83.3
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: PatentIn version 3.0 SEQ ID NO 38 LENGTH: 78
 Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 212, Application US/10058053A Publication No. US20030170222A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 38, Application US/10058053A
Publication No. US20030170222A1
                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION NUMBER: US/10/058,053A CURRENT FILING DATE: 2002-07-05
                                                                                                                                                                                                                 CURRENT APPLICATION NUMBER: US/10/058,053A CURRENT FILING DATE: 2002-07-05
                                                                                                                                                                                                                                                   APPLICANT: Olivera, Baldomero M. TITLE OF INVENTION: B-Superfamily Conotoxins FILE REFERENCE: 2314-248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION NUMBER: US 60/264323 PRIOR FILING DATE: 2001-01-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Olivera, Baldomero M. TITLE OF INVENTION: B-Superfamily Conotoxins FILE REFERENCE: 2314-248
                                                                                                                                                                            PRIOR APPLICATION NUMBER: US 60/264323 PRIOR FILING DATE: 2001-01-29
                                                                                                                                                                                                                                                                                                                                                         APPLICANT: University of Utah Research Foundation APPLICANT: Cognetix, Inc.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: University of Utah Research Foundation APPLICANT: Cognetix, Inc.
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                                                                                                                                                                                                                                                                                                         APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          62 CYWKAC
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Jones, Robert M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Jones, Robert M.
                                                                                                                                                                                                                                                                                                                          Garrett, James E.
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                                                                                                                                                                                                                                                                                                     Watkins, Maren
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83.3%;
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 75.9%;
83.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 41; DB 12; Length 78; Pred. No. 33;
 Score 41;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 41; DB Pred. No. 14;
; DB 12;
. 33;
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                Length
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; NAME/KEY: SITE
; LCCATION: (1)..(8)
; OTHER INFORMATION: Xaa= D-Phe, D-beta-Nal, or Phe
US-09-852-870A-10
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US-09-852-870A-10
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APPLICANT: WARREN, Gregory L.

TITLE OF INVENTION: Urotension II Analogs
FILE REFERENCE: P51081

CURRENT APPLICATION NUMBER: US/10/239,701

CURRENT FILING DATE: 2002-09-13

PRIOR APPLICATION NUMBER: PCT/US00/32408

PRIOR FILING DATE: 2000-11-29

PRIOR FILING DATE: 1999-11-29
                                                                                                                                                                                                                                           SOFTWARE: PatentIn version 3.0 SEQ ID NO 10 LENGTH: 10
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SEQ ID NO 11
LENGTH: 8
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APPLICANT: Goodman,
APPLICANT: Osapay,
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                                 Matches
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                                                                  Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                               APPLICANT: Osapay, George
TITLE OF INVENTION: Lanthionin Bridged Prot
FILE REFERENCE: LKR 9122-D
CURRENT APPLICATION NUMBER: US/09/852,870A
CURRENT FILING DATE: 2001-05-10
                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION NUMBER: US 09/384,601 PRIOR FILING DATE: 1999-08-26
                                                                                                                                                                                                                                                                                                   NUMBER OF SEQ ID NOS: 24
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                                                                                                                                                                         OTHER INFORMATION: Cys-Ser lanthionine bridge
                                                                                                                                                                                                          ORGANISM: Artificial Sequence
                                                                                                                                                                                                                             TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: artificial sequence FEATURE:
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                                                   Local Similarity
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1 ACYWKVCT 8
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                                   Conservative
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                                                                                                                                                                                                                                                                                                                                                                                       Lanthionin Bridged Proteins 9122-D
                                                   74.1%;
75.0%;
                                   1; Mismatches
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Pred. No.
                                               Score 40; DB
Pred. No. 9.1;
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                                                                  DB 10; Length 10;
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CURRENT APPLICATION NUMBER: US/10/058,053A
CURRENT FILING DATE: 2002-07-05
PRIOR APPLICATION NUMBER: US 60/264323
PRIOR FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 340
SOFTWARE: Patentin version 3.0
SEQ ID NO 234
LENGTH: 21
TYPE: PRT
ORGANISM: Conus geographus
US-10-058-053A-234
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; OTHER INFORMATION: Cys-Ser lanthionine bridge , NAME/KEY: SITE ; LOCATION: (1)..(8) ; OTHER INFORMATION: Xaa= D-Phe, D-beta-Nal, or Phe US-09-852-870A-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-10-058-053A-234
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SOFTWARE: PatentIn version 3.0
SEQ ID NO 11
                                  Query Match
Best Local Similarity
Matches 5; Conserv
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APPLICANT: Jones, Robert M.
APPLICANT: Garrett, James E.
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CURRENT FILING DATE: 2001-05-10
PRIOR APPLICATION NUMBER: US 09/384,601
PRIOR FILING DATE: 1999-08-26
                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Watkins, Maren
APPLICANT: Olivera, Baldomero M.
TITLE OF INVENTION: B-Superfamily Conotoxins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Goodman, Murray
APPLICANT: Osapay, George
TITLE OF INVENTION: Lanthionin Bridged Proteins
FILE REFERENCE: LKR 9122-D
                                                                                                                                                                                                                                                                                                                                        FILE REFERENCE: 2314-248
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  2 CYWKVCT 8
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                                        Conservative
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                                                           71.4%;
                                        1; Mismatches
                                                             Score 40; DB
Pred. No. 16;
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                                        <u>ب</u>
                                                                           Length 21;
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; ORGANISM: Conus geographus
US-10-058-053A-231
                                                                                                                                                                                                                                                                                  APPLICANT: Garrett, James E.

APPLICANT: Watkins, Maren

APPLICANT: Watkins, Maren

APPLICANT: Olivera, Baldomero M.

TITLE OF INVENTION: B-Superfamily Conotoxins

FILE REFERENCE: 2314-248

CURRENT APPLICATION NUMBER: US/10/058,053A

CURRENT FILING DATE: 2002-07-05

PRIOR APPLICATION NUMBER: US 60/264323

PRIOR APPLICATION NUMBER: US 60/264323

PRIOR FILING DATE: 2001-01-29

NUMBER OF SEC 10 TO NOS 2014-1
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US-10-058-053A-231
                                                                                                                                                    ; ORGANISM: Conus bocki
US-10-058-053A-264
                                                                                                                                                                                          SOFTWARE: PatentIn version 3.0
SEQ ID NO 264
LENCTH: 40
TYPE: PRT
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                                                                        Query Match
Best Local Similarity
Matches 5; Conserv
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GENERAL INFORMATION:
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APPLICANT: Watkins, Maren
APPLICANT: Olivera, Baldomero M.
TITLE OF INVENTION: B-Superfamily Conotoxins
FILB REFERENCE: 2314-248
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                                                                                                                                                                                                                                                                      NUMBER OF SEQ ID NOS: 340
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APPLICANT: Jones, Robert M.
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12 CYWNVC 17
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                                    2 CYWKVC 7
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Jones, Robert M.
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                                                                          Conservative
                                                                                          74.1%;
83.3%;
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RESULT 13
US-10-058-053A-280
(S-10-058-053A-280)
; Sequence 280, Application US/10058053A
; Publication No. US20030170222A1
; GENERAL INFORMATION:

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; NUMBER OF SEQ ID NOS: 340; SOFTWARE: PatentIn version 3.0; SEQ ID NO 80; SEQ ID NO 80; LENGTH: 90; TYPE: PRT; ORGANISM: Conus bocki
US-10-058-053A-80
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US-10-058-053A-116
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SEQ ID NO 280
LENGTH: 45
TYPE: PRT
ORGANISM: Conus cinereus
US-10-058-053A-280
                                                                                             Sequence 116, Application US/10058053A Publication No. US20030170222A1 GENERAL INFORMATION:
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Best Local S
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Best Local Similarity 71.4%;
Matches 5; Conservative
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APPLICANT: Jones, Robert M.
APPLICANT: Garrett, James E.
APPLICANT: Watkins, Maren
APPLICANT: Olivera, Baldomero M.
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CURRENT FILING DATE: 2002-07-05
PRIOR APPLICATION NUMBER: US 60/264323
PRIOR FILING DATE: 2001-01-29
                                                     APPLICANT: University of Utah Research Foundation APPLICANT: Cognetix, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION NUMBER: US 60/264323
PRIOR FILING DATE: 2001-01-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Garrett, James E.
APPLICANT: Watkins, Maren
APPLICANT: Olivera, Baldomero M.
TITLE OF INVENTION: B-Superfamily Conotoxins
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TITLE OF INVENTION: B-Superfamily Conotoxins
FILE REFERENCE: 2314-248
   APPLICANT:
                       APPLICANT:
                                         APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILE REFERENCE: 2314-248
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                                                                                                                                                                                                                                                                   2 CYWKVC 7
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Cognetix, Inc.
Jones, Robert M.
Garrett, James E.
Watkins, Maren
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Watkins, Maren
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Jones, Robert M.
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83.3%;
                                                                                                                                                                                                                                                                                                        0; Mismatches
                                                                                                                                                                                                                                                                                                                          Score 40; DB 12; Length 90; Pred. No. 51;
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PRIOR APPLICATION NUMBER: US 60/264323
PRIOR FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 340
SOFTWARE: Patentin version 3.0
SEQ ID NO 116
LENGTH: 93
TYPE: PRT
ORGANISM: Conus geographus
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                                   8
                                                                                                                                                US-10-058-053A-116
                                                                       Query Match 74.1%;
Best Local Similarity 71.4%;
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                            FILE REFERENCE: 2314-248
CURRENT APPLICATION NUMBER: US/10/058,053A
CURRENT FILING DATE: 2002-07-05
                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Olivera, Baldomero M. TITLE OF INVENTION: B-Superfamily Conotoxins
72 CFWKSCT 78
                                                                     5; Conservative
                                   2 CYWKVCT 8
                                                                       1; Mismatches
                                                                                        Score 40; DB
Pred. No. 53;
                                                                                                           DB 12;
                                                                                                       Length 93
                                                                       Indels
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Search completed: February 11, 2004, 06:38:00 Job time : 34 secs

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Result
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Scoring table:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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length: 2000000000
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Match Length
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Issued_Patents_AA:*
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/cgn2 6/ptodata/1/iaa/5B_COMB.pep:*
/cgn2 6/ptodata/1/iaa/6A COMB.pep:*
/cgn2 6/ptodata/1/iaa/6B_COMB.pep:*
/cgn2 6/ptodata/1/iaa/bcctfles1.pep:*
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US-08-586-670A-15
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US-09-484-320-1
US-09-484-321-1
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US-09-484-323-1
US-09-325-769-2
US-09-325-769-2
US-09-325-769-2
US-09-325-769-2
US-09-336-170-1
US-09-336-170-1
US-09-636-170-1
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Compugen Ltd.
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Sequence 13, Appl
Sequence 14, Appl
Sequence 11, Appl
Sequence 15, Appl
Sequence 15, Appl
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US-08-233-558-7	US-08-233-558-6	US-08-233-558-5	US-08-233-558-2	US-09-144-991B-41	US-09-144-991B-40	US-09-144-991B-39	US-09-144-991B-38	US-08-931-095-23	US-08-931-095-22	US-08-347-397-3	US-08-467-025-2	US-08-470-932-2	US-08-465-764-3	US-07-902-935-2	US-09-252-991A-20990	US-08-586-670A-19	US-08-586-670A-16
Sequence 7, Appli	Sequence 6, Appli	Sequence 5, Appli	Sequence 2, Appli	Sequence 41, Appl	Sequence 40, Appl	Sequence 39, Appl	Sequence 38, Appl	Sequence 23, Appl	Sequence 22, Appl	Sequence 3, Appli	Sequence 2, Appli	Sequence 2, Appli	Sequence 3, Appli	Sequence 2, Appli	Sequence 20990, A	Sequence 19, Appl	Sequence 16, Appl

ALIGNMENTS

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RESULT 1
US-08-286-748B-7
                                                                              ; FEATURE:
; OTHER INFORMATION: Xaa is D- -Naphthylalanine
US-08-286-748B-7
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GENERAL INFORMATION:
    Query Match
Best Local Similarity
Matches 7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM PS/2 Model 50Z or 55SX OPERATING SYSTEM: MS-DOS (Version 5.0) SOFTWARE: WordPerfect (Version 5.1) CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/286,748B FILING DATE: August 5, 1994
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
                                                                                                                                                                                           TELEX: 200154
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 8
                                                                                                                                                                                                                                                                                          APPLICATION NUMBER:
FILING DATE:
ATTORNEY AGENT INFORMATION:
NAME: J. Peter Fasse
REGISTRATION NUMBER: 32,983
REFERENCE/DOCKET NUMBER: 0454
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-5070
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
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CORRESPONDENCE ADDRESS:
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TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Victor Gurewich
                                                                                                                                                                                                                                                                          TELEPHONE: (617) 542-50
TELEFAX: (617) 542-8906
                                                                                                                                       TOPOLOGY: linear
                                                                                                                                                         STRANDEDNESS:
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    92.6%; Score 50; DB
100.0%; Pred. No. 2.
Live 0; Mismatches
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                  Sequence 14, Application US/08586670A
Patent No. 6241965
GENERAL INFORMATION:
APPLICANT: McBride, William
APPLICANT: Dean, Richard T.
TITLE OF INVENTION: Somatostatin |
TITLE OF INVENTION: And their Radi
                                                                                                                                                                                                                                                                                             Matches
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATTORNEY/AGENT INFORMATION:
NAME: NO. 6241965nan, Kevin E
REGISTRATION NUMBER: 35,303
REFERENCE/DOCKET NUMBER: 92,3
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-715-1000
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INFORMATION FOR SEQ ID NO:
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0,
CURRENT APPLICATION DATA;
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LENGTH: 8 amino acids
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TITLE OF INVENTION: And their Radiolabeled Products
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
   NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: McBride, William APPLICANT: Dean, Richard T.
                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY: Modified-site
LOCATION: 1.4
OTHER INFORMATION: /label= Variant residues
OTHER INFORMATION: /note= "xaa is D-naphthylalanine and is linked
OTHER INFORMATION: to DTPA; Trp is in the D conformation;
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10 South Wacker Drive, Suite 3000
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22-APR-1996
Somatostatin Derivatives And their Radiolabeled P. 23
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TELEFAX: 312-715-1234
TELEX: 910-221-5317
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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Best Local S
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                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION:
TITLE OF INVENTION:
NUMBER OF SEQUENCES:
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LOCATION: 1..4
OTHER INFORMATION:
OTHER INFORMATION:
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURE:
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STREET: 10
TTTY; Chicago
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release."
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REGISTRATION NUMBER: 35,303
                             APPLICATION NUMBER: US/08/586,670A FILING DATE: 22-APR-1996
                                                                                                                                                                                                                                                                                                                                                 COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE/DOCKET NUMBER:
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: amino acid
TOPOLOGY: linear
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                                                                                                                                                                                                                                                                                                                       60606
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Banner & Witcoff, Ltd
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Somatostatin Derivatives
And their Radiolabeled Products
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /label= Variant residues
/note= "Xaa is D-naphthylalanine and is linked
to 2-ketogulonyl, Trp is in the D conformation,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Release #1.0, Version
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Pred. No.
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2.5e+05;
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US-08-586-670A-15
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Best Local Similarity
                                             FILING DATE: 22-APR-1996
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: No. 6241965nan, Kevin E
REGISTRATION NUMBER: 35,303
REFERENCE/DOCKET NUMBER: 92,385-DD
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-715-1000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
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INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                           ZIP: 60606

ZIP: 60606

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

COMPUTER: Patentin Release #1.0, Version #1.25

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/586,670A
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TELEPHONE: 312-715-1000
TELEPAX: 312-715-1234
TELEX: 910-221-5317
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: McBride, William
APPLICANT: Dean, Richard T.
TITLE OF INVENTION: Sometostatin Derivatives
TITLE OF INVENTION: And their Radiolabeled Products
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
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OTHER INFORMATION:
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OTHER INFORMATION:
OTHER INFORMATION:
OTHER INFORMATION:
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                  TELEPHONE: 312-715-1234
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REGISTRATION NUMBER: 35,303
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    9 amino acids
amino acid

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10 South Wacker Drive, Suite 3000
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100.0%; Pred. No. 2.5e+05;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /label= Variant residues
/note= "The Trp residue is in the D conformation;
the Cys side chain sulfur is methylated;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /label= Variant residues
/note= "The Lys is linked to a BAT chelator
through the side chain nitrogen; Xaa is
D-naphthylalanine; the Cys sulfur is methylated;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Kevin E
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                                                                                                                                                                                                                                                                                                                                                                                                             FILE REFERENCE: DNA STRING
CURRENT APPLICATION NUMBER: US/09/484,318
CURRENT FILING DATE: 2000-01-18
NUMBER OF SEQ ID NOS: 8
SOPTWARE: Patentin Ver. 2.1
SEQ ID NO 1
                                                               Matches
                                                                             Query Match
Best Local Similarity
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Rajagopalan, Raghavan
APPLICANT: Dorshow, Richard B
APPLICANT: Bugaj, Joseph E.
TITLE OF INVENTION: NOVEL DYES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
                                                                                                                                           OTHER INFORMATION: This is D-tryptophan

NAME/KEY: SITE
LOCATION: (8)

OTHER INFORMATION: This C-terminal residue ends with a hydroxyl
                                                                                                                                                                                                                             LOCATION: (2)..(7)
NAME/KEY: SITE
                                                                                                                                                                                                                                                        LOCATION: (1)
OTHER INFORMATION: This is D-phenylalanine
NAME/KEY: DISULFID
                                                                                                                                                                                                                                                                                                            OTHER INFORMATION: Description of Artificial Sequence:Octreotide
                                                                                                                                                                                                                                                                                                                                               FEATURE:
                                                                                                                                                                                                                                                                                                                                                              ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                             ENGTH: 8
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OTHER INFORMATION:
OTHER INFORMATION:
OTHER INFORMATION:
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OTHER INFORMATION:
OTHER INFORMATION:
OTHER INFORMATION:
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                             2 CYWKVCT
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CYMKTCT
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                                                              Conservative
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                                                                             85.2%;
85.7%;
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100.0%; Pred. No. 2.9
tive 0; Mismatches
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/note= "Lys is linked to a BAT chelator
through the side chain nitrogen and to DTPA
at the N-terminus; Xaa is D-naphthylalanine;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /label= Variant residues
/note= "The Trp residue is in the D conformation;
each of the Cys side chain sulfur atoms are
methylated;
                                                                             Score 46; I
Pred. No. 2
                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 3; Lc.
o. 2.5e+05;
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US-09-484-318-8

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; LOCATION: (4)
; OTHER INFORMATION: This is D-tryptophan
US-09-484-318-8
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US-09-484-319-1
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Best Local S
Matches 6
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CURRENT APPLICATION NUMBER: US/09/484,318
CURRENT FILING DATE: 2000-01-18
NUMBER OF SEQ ID NOS: 8
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 8, Application US/09484318 Patent No. 6180085 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                        SOFTWARE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 1, Application US/09484319 Patent No. 6180086
                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Achilefu, Samuel
APPLICANT: Rajagopalan, Raghavan
APPLICANT: Dorshow, Richard B
APPLICANT: Bugaj, Joseph E.
TITLE OF INVENTION: NEW HYDROPHILIC CYANINE DYES
FILE REFERENCE: DNA STRING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Achilefu, Samuel
APPLICANT: Rajagopalan, Raghavan
APPLICANT: Dorshow, Richard B
APPLICANT: Bugaj, Joseph E.
TITLE OF INVENTION: MOVEL DYES
                                                                                                                                                                                                                                                                                                                                      FILE REFERENCE: DNA STRING
CURRENT APPLICATION NUMBER: US/09/484,319
CURRENT FILING DATE: 2000-01-18
NUMBER OF SEQ ID NOS: 8
SOFTWARE: Patentin Ver. 2.1
                                                                                          NAME/KEY: DISULFID LOCATION: (2)..(7)
NAME/KEY: SITE LOCATION: (4)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OTHER INFORMATION: Description of Artificial Sequence:Octreotate NAME/KEY: SITE LOCATION: (1)
OTHER INFORMATION: This is D-phenylalanine
                                                                                                                                                                                           FEATURE:
OTHER INFORMATION: Description of Artificial Sequence:Octreotide
NAME/KEY: SITE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: DISULFID LOCATION: (2)..(7)
LOCATION: (8)
OTHER INFORMATION: This C-terminal residue
                                                                                                                                                                                                                                                                TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURE:
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                                                   NAME/KEY: SITE
                                                                       OTHER INFORMATION: This is D-tryptophan
                                                                                                                                                                       LOCATION: (1)
OTHER INFORMATION:
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85.7%;
                                                                                                                                                                     D-phenylalanine
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Pred. No. 2.5e+05;
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                 ends with a hydroxyl
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; OTHER INFORMATION: This is D-tryptophan
US-09-484-319-8
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US-09-484-319-8
                                                                                                                                                                                                                                                                                                                                                   US-09-484-320-1
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SEQ ID NO 8
LENGTH: 8
                                                                                                              SOFTWARE:
SEQ ID NO 1
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                                                                                                                                                                                                                                                                                                                Sequence 1, Application US/09484320 Patent No. 6180087
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Best Local Similarity
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Best Local Similarity
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CURRENT APPLICATION NUMBER: US/09/484,319
CURRENT FILING DATE: 2000-01-18
NUMBER OF SEQ ID NOS: 8
                                                                                                                             CURRENT APPLICATION NUMBER: US/09/484,320
CURRENT FILLING DATE: 2000-01-18
NUMBER OF SEQ ID NOS: 8
SOFTWARE: PatentIn Ver. 2.1
                                                                                                                                                                                               APPLICANT: Rajagopalan, Raghavan
APPLICANT: Dorshow, Richard B
APPLICANT: Bugaj, Joseph E.
TITLE OF INVENTION: Tunable Indocyanine Dyes For Biomedical Applications
FILE REFERENCE: dnastrng
                                                                                                                                                                                                                                                                                 APPLICANT:
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APPLICANT: Rajagopalan, Rag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
OTHER INFORMATION: Description of Artificial Sequence:Octreotide NAME/KEY: SITE LOCATION: (1)
                                                   TYPE: PRT
ORGANISM: Artificial Sequence
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                                              FEATURE:
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                                                                                              LENGTH: 8
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Dorshow, Richard B
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85.7%;
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85.7%;
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Pred. No. 2.
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Pred. No. 2.5e+05;
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Best Local S
Matches 6
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SEQ ID NO 8
LENGTH: 8
                                                                                                                            Sequence 1, Application US/09484321
Patent No. 6183726
GENERAL INFORMATION:
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Best Local (
                    APPLICANT: Achilefu, Samuel
APPLICANT: Rajagopalan, Raghavan
APPLICANT: Dorshow, Richard B
APPLICANT: Bugaj, Joseph E.
TITLE OF INVENTION: VERSATILE HYDROPHILIC DYES
FILE REFERENCE: DNA STRING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILE REFERENCE: dnastrng
CURRENT APPLICATION NUMBER: US/09/484,320
CURRENT FILING DATE: 2000-01-18
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TITLE OF INVENTION: Tunable
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CURRENT FILING DATE:
             FILE REFERENCE: DNA STRING
CURRENT APPLICATION NUMBER: US/09/484,321
                                                                                                                                                                                                                                                                                                                                                                                                LOCATION: (4)
OTHER INFORMATION: This is D-tryptophan
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LOCATION: (8)
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llarity 85.7%;
Conservative
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 2000-01-18
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Pred. No. 2.5e+05;
0; Mismatches 1
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Pred. No. 2.5e+05;
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APPLICANT: Bugaj, Jo
TITLE OF INVENTION:
FILE REFERENCE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
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Best Local Similarity
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SEQ ID NO 1
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CURRENT FILING DATE: 2000-01-18
NUMBER OF SEQ ID NOS: 8
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SOFTWARE: PatentIn Ver. 2.1
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                                                                                                                                                                                         OTHER INFORMATION: Description of Artificial NAME/KEY: SITE LOCATION: (1)
OTHER INFORMATION: This is D-phenylalanine NAME/KEY: DISULFID
                                                                                                                                              LOCATION: (2)..(7)
NAME/KEY: SITE
LOCATION: (4)
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OTHER INFORMATION: This is D-tryptophan
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                                                                                                                                OTHER INFORMATION: This is D-tryptophan
                                                                                                                                                                                                                                                                                                  TYPE: PRT
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                            2 CYWKVCT 8
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Dorshow, Richard B
Bugaj, Joseph E.
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                                                        Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Samuel
                                                                      85.2%;
85.7%;
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85.7%;
                                                                      Score 46; I
Pred. No. 2
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Pred. No.
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                                                                                      DB 3;
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                                                        1; Indels
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RESULT 14 US-09-484-323-1 ; Sequence 1, Application US/09484323

APPLICANT: Dorshow, Richard B
APPLICANT: Bugaj, Joseph E.
TITLE OF INVENTION: NOVEL INDOCYANINE DYES

Rajagopalan, Raghavan Dorshow, Richard B

NFORMATION

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FILE REFERENCE: DNA STRING
CURRENT APPLICATION NUMBER: US/09/484,323
CURRENT FILING DATE: 2000-01-18
NUMBER OF SEQ ID NOS: 8
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 1
LENGTH: 8
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence:Octreotide
NAME/KEY: SITE
LOCATION: (*)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OTHER INFORMATION: This is D-tryptophan
NAME/KEY: SITE
LOCATION: (8)
OTHER INFORMATION: This C-terminal residue ends with a hydroxyl
US-09-484-323-1
                                                   IOCATION: (1)
OTHER INFORMATION: This is D-phenylalanine
NAME/KEY: DISULFID
LOCATION: (2)...(7)
NAME/KEY: SITE
LOCATION: (4)
COTHER INFORMATION: This is D-tryptophan
US-09-484-323-8
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US-09-484-323-8
; Sequence B, Application US/09484323
; Patent No. 6190641
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CURRENT APPLICATION NUMBER: US/09/484,323
CURRENT FILING DATE: 2000-01-18
NUMBER OF SEQ ID NOS: 8
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 8
LENGTH: 8
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Best Local Similarity 85.3
Matches 6; Conservative
Query Match 85.2%;
Best Local Similarity 85.7%;
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TITLE OF INVENTION: NOVEL INDOCYANINE DYES
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APPLICANT: Rajagopalan, Raghavan
APPLICANT: Dorshow, Richard B
                                                                                                                                                                                                    PEATURE:
OTHER INFORMATION: Description of Artificial Sequence:Octreotate
NAME/KEY: SITE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LOCATION: (1)
OTHER INFORMATION: This is D-phenylalanine
NAME/KEY: DISULFID
LOCATION: (2)..(7)
NAME/KEY: SITE
LOCATION: (4)
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Pred. No. 2.5e+05;
Score 46; DB 3; Length 8; Pred. No. 2.5e+05;
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Search completed: February 11, 2004, 06:33:33 Job time : 22 secs